

APPENDIX A: DNA SEQUENCES

>RXA00009-upstream

GACGACATGCGCAGGCGAGTAATCGAACTGCAATTGGGCAAAGTAGTCCGCGATGATGCC
CACGGCGTCTACGGCGAAATGCGATAGGGGAGTACTTCAC

>RXA00009

ATGGCTTTTGGATATGTACTGCGTGAAGCTGTTTCGCGGCATGGGCCGCAACGTCACCATG
ACCATCGCGCTCATCATCACCACCTCTATTTCTTGGCACTTCTTGCCACTGGATTTTGT
GTGACCAACATGACCGACCGCACCAAGGACATCTACCTGGATCGCGTCGAAGTGATGATC
CAACTCGATGAGGACACCTCTGCCAACGATCCCGAATGCACCGCGGAGTCTGCACCGAA
GTTTCGTGATGTCTTAGAAGGACTCGACGGCATCGATTCCATCACCTACCGTTCCCGCGAG
GCCTCCTACGAACGATTTCGTAGAAGTTTCAAAGATACTGACCCAGTTCTCGTCGCTGAA
ACCTCTCCCGACGCATTGCCAGCAGCGTTCACGTCCGACTTGAAGATCCACTTGCCGTT
GAGATTCTCGATCCGGTCCGCGATCTTCCTCAAGTAAGCAACGTGATCGACCAGGTGGAT
GATCTGCGCGGAGCAACCGAAAACCTTGACTCCATCCGCAACGCCACCTTCCTCATCGCG
GCTGTGCAAGTTTTGGCATCGATCTTCCTGATTGCCAACATGGTGCAAATCGCTGCATTC
AATCGTCGTGAAGAACTGAAATCATGCGCATCGTCGGCGCATCGCGGTTCTACACTCAG
GGACATTTCGTCTTGAAGCGATTCTATCCACCCTCATTGGTGCGGTTTTCGCCGTCGGC
GCGCTCTTCTTGGGTAAAGAACTCGTCATTGATAAAGCACTCCGCGGACTCTACGATTCC
CAGCTCATCGCACCAAGTTACCACCACAGATATTTGGCTGGTCGCACCGATAATTTCCGGC
ATTGGCGTGGTGATCGCCGGCATTATCGCACAACTCACCCTGCGCTTCTACGTGAGGAAA

>RXA00009-downstream

TAAGACTATTGAACTCCTTGCCG

>RXA00010-upstream

CTTAAGAATTACCGGTTATTTGTGCTTGAGTTCTCCTCTGAGCACTCAGGGTAGTCACTT
CCGTTTCTTTAGCCACAGGAGTTTCGCTAAAGTGTGACCC

>RXA00010

GTGATCACCTTCGAGAACGTCACCAAGAACTACAAGACATCAACCCGCCCTGCATTAGAC
AATGTGTCCCTACACATTGAAAAAGGCGAGTTCGTGTTCTCATCGGCCCATCCGGCTCC
GGAAAATCAACCTTCCTGCGCCTGATGACGCGGGAGGAAAACGTCAGCTCCGGATCGCTG
ACACTGGCTGATTTTTCAGGTGAACAACTTCGCGGCACGCAAGTAAACAACTGCGCCAA
CGCATCGGATATGTGTTCCAAGATTTCCGACTCTTAAAAACAAGAATGTCTACGACAAC
GTCGCATTTCGCATTGGAGGTTCATCGGGAAGAAGAAGGACAAGATTCAAGAACTTGTCCCC
GAAACTCTGGAATGGTTGGCCTTGCCGGAAGCCAAACCGCATGCCCAACGAACTATCC
GGTGGTGAGCAGCAGCGGTGGCCATCGCCCGAGCTTTCGTGAACCGCCCACTCGTCTTG
CTTGCTGATGAACCAACCGGCAACCTCGACCCGATACCTCCGATGAGATCATGATTTTG
CTCAACCGCATCAATCGCCTCGGCACCACGGTGGTCATGTCCACCCACAACGCCCCGAACT
GTCGACGACATGCGCAGGCGAGTAATCGAACTGCAATTGGGCAAAGTAGTCCGCGATGAT
GCCACGGCGTCTACGGCGAAATGCGA

>RXA00010-downstream

TAGGGGAGTACTTCACATGGCTT

>RXA00024-upstream

TTAAGACATCAACATATGGCTTGTGCTACTGAAAGATTTTCTTCTGAAATTCTGTAGAA
ACGCTCCTATGCTCGGGGCAGTAAGTTGTGAGCATAGGAA

>RXA00024

ATGGAGCACGGCGTGACCGTTATTAAAGGCACTGAATTTGATGTTTTCCCACTAAACCTC
GGTGGAAATACCTTTGGCTGGACCTCGAATAGGGAACAGACCTTCGCGGTTTTGGATGCA
TTCGTGGCAGCGGAGGAACTTTGTTGACACCGCCGATTCTTATTCTGCATGGGTTGAA
GGCAATGAGGGTGGCGAGTCGGAGCGGGAGCTCGGCGCGTGGATTAAGGAACGTGGCGCA
GACAAGCTGATCATTGCTACCAAGTCTGGTGCGTTGGAGCCTGTTGCTGGTGGTCCCGT
GAGGCAACTTTCAAGGCTGTGAGGGTTCCCTGGAGCGTTTGGGCGTGGAATCGATCGAT

ATTTTTTACTACCACTACGACGATGAGGCAGTCAGCATTGATGAGCAGGTTGCTATCGCT
 AATGATCTGATTGCACAGGGCAAGATTAAGCACCTCGCATTGTCTAACTACAGCGCGGAG
 CGTTTAGCTGAGTTCTTTGAGAAGTCTGTAGGCACTCCAGCGCAGCCGTTGCTCTGCAA
 CCGCACTACAACCTGGTGTCGAGGAAGGATTATGAGGAGAACGTGCAGCCACTCGCCGAG
 AAGCATGGCGTTGCAGTCTTCCCTTATTTGCGCGCTTGCCGCGGGTCTTTTGACCGGAAAG
 TACACCTCCAAGGAGGATATTTGGGTAAAGCGCGTGCGGGGAGTTGGATCGTTACGCC
 AGCGATGAGGCGTTTGCCGTGGTGACAGAGTTGCGTGCTGTTGCCGATGAGTTGGGTGTT
 GCGCCAACGACTGTGGCGCTTGCGTGGTTGGTTGCGCATGGTGTGACCGCACCGATTGCG
 TCCGTGTCCAAGGTAGAGCAGTTGAAGGATTTGATGGCTGTGAAGGATGTGGAGCTGAGC
 GCTGAGCAGCTTGACGTTTGGATAAGGTTTCGGAGCCTTTTCGCT

>RXA00024-downstream
 TAAGCTCTCCTCAAAAGTAAGTG

>RXA00026-upstream
 CCCTTTCTGGCTAGCCTAGGCTACATTGTTGGCAATTTGGTTCTACGCCGATTGCGCGT
 TGGACCTGGCTCTGCGATCTTCCCTCGAAGGATAAGTTTTTC

>RXA00026
 ATGAGTACTGACAATTTTTCTCCACAAGTTCCGTGCGACTGTGTATTTGGATTACATGGAG
 CAAGGGATTGCCGCGCGCAAAGCGGAGGCAGAATCTAACGCCAGCACGAAGGGGGAGAGC
 CCGGATTATCCAGGCCAGCAGGTTATTTGGCGCCTGATCCAGGAAGCAGGGGAGTCGTTG
 CGTGATGAAGTGCACACTGGCTTTCACGCTGCACGACCATCCGGAAGAAGCGTTTCGAG
 GAGGTGTTCCGCCACCGAGGAAATCACAAAACCTTCTGCAAAATCATGGTTTTGAGGTTTCA
 AGTGGAGTTTTATGGTGTTAAAACCGCTCTAGAAAAGTATTTTGAAACCCCTGGTTATGAT
 CCAGCGCAGCACCCAAGCATTGCGATCTTGGCGGAATACGATGCCCTTCCAGAGATCGGC
 CATGCATGCGGGCACAATATCATCGCAGCAGCTGGTGTGGCGCATTTTTAGCTGTCACC
 AACATGATCAAACTGCCGAAGTGAAAGGCGTGGATCACCTCGACTTTGAAGGCCGGATC
 GTGCTGTTGGGAACACCTGCTGAGGAGGGGCATTCCGGCAAGGAATACATGATCCGAAAT
 GGCGCATTCGATGGCATTGATGCGTCGATTATGATGCACCCCTTTGGCTTCGATCTGGCG
 GAGCATGTTTGGGTGGGCAGACGTACCATGACGGCGACGTTCCACGGTGTCTCTGCACAC
 GCGTCTTCGACGCTTTTCATGGGTAAAAATGCCCTCGACGCTGCAAGTTTGGCGTACCAG
 GGCTTCGGAGTTTTTGCGTCAGCAAATGCCACCGAGCGACCGCCTTCACGCCATTATTACG
 GAAGGCGGAAACCGGCCAAGCATCATTCCAGACACTGCAACGATGTCGCTGTACGTGCGT
 TCTTTGTTGCCGGAAGCACTCAAAGACATATCGAAACGCGTGGATGATGTGCTCGATGGG
 GCGGCCTTGATGGCGGGGTTGGCGTCGAAAAGCAATGGGATGTGCACCCAGCTAGCTTG
 CCCGTGCGCAACAATCATGTGTTGGCGCGGCGTTGGGCAAAAACGCAGAATCTGCGTGGT
 CGAACGGCGCTTTTCGGAGGGTATTTTGCCCGACACTCTGGCAGCATCGACTGATTTTGGC
 AATGTCTCGCACCTGGTTCCGGGCATTTCATCCGATGGTGAAAATTTCTCCGGAAAACGTT
 GCGCTCCACACCAAGGAATTGCGCGCTTATGCGCGCACGGAAGAGGCCATCGACGCAGCC
 GTCGACGCCGCAATCGGGCTGGCGCAAGTCGCGGTTGACGCGCTTGACAGATCCGCAAATG
 CTTATCGACGCGACCTCGAGTTCACCAACTCCGGCGACGTACTTAAAGTAGGGGACTAT
 TTGGCT

>RXA00026-downstream
 TAGGCAACGACTCCGAAACCTTC

>RXA00048-upstream
 GCGAAGGCGTGGGCATAGGGAAACCTTAGCTGATCTGCGGTGACTTAAATATAAGGGGG
 TGGAATGGGGGTATTGTAAATCTGAACCTTGTTTCATTT

>RXA00048
 ATGAATCATGATTGAGAATGTGATCTAGATAATGTTGTTTCACTTACTATTCAAGAAGGG
 TTAGATCCCATGTCACCCAATAACTTCGATACCGATGTCTGCATCGTCGGTGGAGGTCTT
 ACCGGAACGCTCCTTGAGTACTGCTCGGCCAAAAAGGTCACCGCGTCACCATCCTGGAA
 AAGTGGCCAACATTCTACGAACGACCTCGTGACGTCACCTTTGACCACGAAATCGCACGG
 ATCCTTGATACATTGGCATTGATTCTGAAAACGACGAAGCCATCGATTACCACTCCGAC
 AGTACGACTGGAAGAACGCAGCGGGGGAGACGCTTTTGAAGTCGATTGGACCTCCATG
 ACAGATTCCGGATGGCGCACCCGATACTGGTTCTACCAGCCAGAACTTGAAAAGCGTCTG

CGCGATCTGGCCCTGACCATGGATTTTGTAGATATTCGCTGTGGCTTCACCGCTGTGCGGA
 TTGTCCCAAGATGAAAACCTCCGCCATCATTACGGCATTGTCACCTGATACCCAGAGAAC
 ATTCCAGCAGATGCTCAGCGCGAAGATATCCGAGCGAAGTATGTCATCGGTGCAGACGGA
 GCTAACAGTTTCGTGCGTAACTCCCTTGGCTTAGAGATGAATGATCTTGGATACTTCTTC
 GACTGGCTGATCCTGGACCTCAAGCCAACTCAGGACATTGACTACGGAACAGATCACTGG
 CAACTGTGTGATCCCAAGCGCCCAACCACCATCGTTTCTGGAGGCCCCGGCCGCGACGT
 TGGGAATTCATGGCGCTGCCTGGTGAAGATCTCAAGGAACTCGCTTCTGAAGAAAGCGCG
 TGGAACTCTACTTGAGCCATGGGATGTCACACCTGGCAAGGCCATTCTCGAGCGCTCCGCA
 GTGTATCGATTCCAAGCTCGCTGGGCCCAGGAATGGCGCTCCGGAAGAGCTCTCATCGCA
 GCGGATGCCGCTCACCTCATGCCACCTTTCGAGGTGAAGGCATGTGCGCTGGCCTGAGA
 GACTCACTGGCGTTGGCATGGCGTCTTGATTTGGTGTGAGCGGAAAATCAGATGATGCA
 TTGCTAGACACCTACGGAGAAGAAGCCGCGAACACGTCCACTACTACATTGATTTCTCC
 ATGGACCTGGGCAATGTCATCTGCATTACTGATGAAGATGAAGCACGTTTGCGCGATGAG
 CGCATGATTAAAGAGCTTGAAGCACAAAGACGGGGTCCCTGTTAATACCGATGTGCGACAC
 TTGGGACCGGGAATTTGGGATAAAGATTCTTCCCATGGTGGCGAGCTAGCGAAGCAGGGC
 ATAGTGAATACCAAGGTCGAAAGGCGCGTTTCGACGACGCAGTCGGCCGTGGCTGGGCA
 GTTTTAGGCCTCAACACTGATCCACGAGAAGTGCTTGATGAGGATTCGCTTGTGGCACTT
 GACGCCATCGGTGCAATCGTCGAATCAGTAGGTGATGCAACTTCCGCAGTTTATAGATGTT
 GAAGGTCTTTACACTCGCTGGCTCAAGGAAGCCGGGGCAACATTTATTATTACCCGCCCC
 GATTTCTACGTCTATTCCACAGCAGTGGACGCTGAACAACCTCAAACACAGATTAAGCAG
 CTATCGGATCTACTTCACCTCAACTCAGTTGTGCGAGCA

>RXA00048-downstream
 TAGGAGCTAAAAATGTCTTTACA

>RXA00070-upstream
 CCACTCGTCTCGACATACTTCTCCTGGCACTAAACGCAGGGGTTGACACATCTGGGTAG
 ACTATCGAAGTACATTTTGTGTCATTGAGGAGGATCAACG

>RXA00070
 GTGGGTATCAATCGCATCAGCCAAGGCTCTGCCCCGAAGCTGGGAGTGCGAAGCACCAGA
 CAGCGAAAAGCCGTAATTGACGTTCTTGAGGAAATCGATAACTTCGCTTCCGCCAAAGAA
 ATCCATCAGAGCTATCCACAGGGAACACAACGTCGGCCTCACAACCGTCTACCGAACC
 CTCCAATCCCTCGCCGACATCGGAGCAGTCGACGTACTTACCGTCACGGGTGGAGAACT
 CTGTACCGCCAATGCCACGACGAGGGACACCACCATCACCTGGTCTGCACCAATTGCGGT
 CGCACAGTCGAAATCGATGGCGGTCCAGTAGAGACATGGGCACAGGAAATTGCCACTAAA
 AACGGCTTTGCTCTCAGTAGTCACGAGGCTGAAATCTTTGGACTTTGCGCTGATTGTAAG
 GAAAAAGTTACG

>RXA00070-downstream
 TAGTTCAAGGACATATGAAGCTG

>RXA00072-upstream
 ACGGCCAGGACGATCCAGTGCACAGGCCAGCACCAGCAAAGTCCACATCGCAAGCATTAA
 AAGAATCTCTCGAAAGACACAAAAGAGGTGAGTCGCAACA

>RXA00072
 ATGAGCTTTCAACTAGTTAACGCCCTGAAAAATACTGGTTCCGGTAAAAGATCCCGAGATC
 TCACCCGAAGGACCTCGCACGACCACACCGTTGTACCAGAGGTAGCAAAACATAACGAG
 GAATCGTCGAAAAGCATGCTGCTGCGTTGTATGACGCCAGCGCGCAAGAGATCCTGGAA
 TGGACAGCCGAGCACGCGCGGGCGCTATTGCAGTGACCTTGAGCATGGAAAACACCGTG
 CTGGCGGAGCTGGCTGCGCGGCACCTGCCGGAAGCTGATTTCTCTTTTTTGGACACCGGT
 TACCACTTCAAGGAGACCCTTGAAGTTGCCCGTCAGGTAGATGAGCGCTATTCCCAGAAG
 CTTGTACCGCGCTGCCGATCCTCAAGCGCACGGAGCAGGATTCCATTTATGGTCTCAAC
 CTGTACCGCAGCAACCCAGCG

>RXA00078-upstream
 CGGTGCTGAGGAGGGTGACATGTCTGGAAGCAGATTGACGCATGCTTTCTAGCGTAATGT

GGGTCACAGAAAATGCTCTCGCTTGAAGGCAGGAATCCG

>RXA00078

ATGAAAGCCGATCTCACCCCGTACCGTCAGTTCAATGGAAATGCCAAAGAAGCAATGGAG
TTCTACCAAACAGTTTTTGGTGGCGAGCTTCAGATGATGCCGTTTTCCGCCATGCATTCT
GAGGAGGAAGTTGGTGGTGACGGCGAGAAAATCATGCACGCTGAGCTGGTCGTTGATGGT
CAGAAGTTGCTTTTTGCCAGTGATATTCGCGCGTGATGCAACGAATGAAGGGCGAGGAC
ACTCCGTTGTGCTGACTGGTGGCGCTGAGCTGGAAGAGGAAATTCGTGGCTACTGGGAG
AAGTTGTCTGAGGGCGGCACCGTGACCATGCCTTTGGAAGCTGTTCCCTTGGGGTGCGGTT
TATGGTGGCTGGAGGATCGCTTTGGAACCTACTGGATGTTCAACATCGGTGGC

>RXA00078-downstream

TAAAACTTTTGGAACTTATTGA

>RXA00088-upstream

GCTGTGTTACTTTTCATCTTTAGGTAACCTACCCTCACTAAAGCTCTGGGAATACTCTGGC
AGTTTTGGTGGATTATTTTATAGACTTTCAAAGGACGAC

>RXA00088

ATGGTGAAAAACCGATTCAAGCTAGTTTCAATCGCAACTGTTGCGGCCCTGGCGCTCGTT
GGCTGCTCTTCCACCGACAGCACCTCTTCCGAGTCTTCTTCCGCTGCAGAGTCAACCGCT
GCAGCTAGCACCTGACTATCGAAGACAACCACGGCACCGAAGGGATCTCCCTGCCAATC
GAGGGCGTCGCTGCGACCGACAACCGCGCATTCGAACTGCTTGATCGCTGGGGTGATAGAG
CTCGTTGCAGCTCCACTTCAGCTGGTTCCATTTACCGTTACGGGCTACACCGAAGAGGGC
GGCGTCGTAACCTTGGCTCCCACCGCGAGCCAGACCTGGAAGCACTTGCTGCTGCACAG
CCTTCCCTGATCATCAACGGCCAGCGCTTCGCTCAGTACTACGATGACATCATTGCCCTG
AACCTGACGCAACCGTTGTTGAGCTAGACCCACGCGATGGCGAGCCACTTGACCAGGAG
CTTATCCGCCAGGCTGAAACCTCGGTGAGATCTTCGGCGAAGAAGAAGATGCTGCAAAG
ATCGTTGCTGATTTGAGTCCGCACTTGAGCGCGCTAAGACCGCATACGCAGCAATCTCC
GACCAGACCGTCATGGCAGTTAACGTTTCCGGCGGAAACATTGGCTACATCGCTCCTTCC
GTTGGACGCACCTACGGTCCAATCTTCGACCTGGTTGGACTCACCCACGACTCGAGGTT
GGCAACGCGTCCTCCGACCACGAGGGCGACGACATTAACGTGGAAGCAATCGCAGCTGCA
AACCCAGACCTGATCCTGGTCATGGACCGGATGGTGGCACCAGCACCCGCAACGAAGCT
GATTACGTTCCAGCAGAGCAGATCGTCTCCGACAATGAAGCACTGGCAAACGTCAAGGCT
GTCACCGACGGATACGTTTACTACGCACCTGCAGATACCTACACCAACGAAAACATCATC
ACCTACACCGAGATCCTCAACGGCATGGCAGATATGTTTCGAGAAGGCAGCTCAG

>RXA00088-downstream

TAGGGGATCGATCCACACTGAC

>RXA00100-upstream

GTTTTGCGGTGTTGAATTGGGTGTTTAAATGTGCACTGGGCGTGGGGAATGCTCATTGCGT
ATCCGCTTGTTTTACATGCGGTGATCGCGCGGAGTAAACG

>RXA00100

ATGATTTTGGATTGGGTTATCTCCATCATGGAGGCACTCGGCGCCGTTGGCGTGGGTGTC
GCGGTGTTTTTGGAGAACGTTTTCCCGCCGATTCCAAGTGAGGTGGTGCTTCCGCTCGCG
GGTTTACCAACACGCAAGGCGATCTCAATGTGTGGGCGGCGCTTATGTGGTGGTGATC
GGGTGCGTTTTCCGGAGCGTTTTTGCTTTACGGGTTGGGGCGCTCAATCGGGGCGGCACGG
TTGCGGCAGGTCGCGGACTGGATGTGGCTTGTGACGCGACCGACGTGGATAAATCCCTA
TCGTGGTTTCGAAAAGTACGGGAAGTATTCGGTGTTTTTCGGTCGGTTGGTGCCGGGTGTC
CGAAGTTTGATTTGATTCCGGCGGGCGTCGACAAGATGAATCCGGTTCTCTTCGGTGTC
CTCACTGCGGTGGGCGACCATTTGGAATGCGGTTCTGATTTGGACTGGTGTGTGGTTG
GGGGCGGAATGGGAGACGGTGTGATGTGGTTTGAGAGCTATTCAACGATCATTTACGTA
GGTATCGCGCTCATTGTNGCTTACGTGTTGTTTGGTTTAGTCCGTCGCCGAATTAAAACT

>RXA00100-downstream

TAACCATCGGTTCTGTAGCCGAAG

>RXA00111-upstream

CCGAGAAGCTGGAGAAGGCCAACAAAGCGTGGCCTCTACACCTCCGCGTCCTTCCACAGCC
CCGGCGCCATCACTGGCGACCACTAAAAAAGGAGACTTCG

>RXA00111

ATGGCCTTTTTTAGCTTTTCGACGTCTCCCTCACCCGCCTCATCCCCGGCAGCCGCTCC
AAAGCCACAGGCGCCAAACGGCGCCTGAGCAGCACAATCGCGTCGATTGAACGCTCCCCC
GGCATCATTGCCCTAGACGGACCGTTACCCACGATCACGTCTCCGTACGTGGCATTTCGC
CTCCATTTAGCAGAGGCGAGGCTCCCCACCAAACCCCTGGTTCTTCTGATCCACGGGGCT
TTCGGCGGTTGGTACGACTACCGCGAAGTCATCGGCCCCACTCGCAGATGCCGGCTTCCAC
GTCGCGCCCATCGATCTACGCGGCTACGGCATGTCCGACAAACCCCCAACAGGCTACGAC
CTCCGCCACGCAGCCGGAGAACTCAGCAGCGTTATCGCAGCTCTCGGCCACGATGACGCA
CTTCTTGTCGGCTCCGACACCGGCGCCAGCATCGCCTGGGCTATCGCTTCCATGTACCCC
GAACGGGTCCGCGGCCAATTTCCCTCGGCGCGATCCACCCCTTGACATGCGACGCGCC
ATCCGACGAAAACCCACCTACACGTCTCTGACCTCAGCCGACTTGCTCCTTTTCGGTTG
CCCTCATTCTGCATAACCTCTTCCACTTCGGAATCACCAGCGAAGCTCGACGTGAGATC
GTCAACAACACGTCTCGTCTTACCAGCGCAGCAACGCATTACAGAGACAGTGCTCCTC
CGAAAAAAGCACTATCGATCGACCACACCATCACCCCGATCATCCGCACCAACCGCTAC
CTCGTTGGGTGATCCCCAGCAAAACAGTCTCCGCACCGGTGTGGCTGCTCAGAACCAAC
ACTCGACGCTGGGAACATCTAGCCAATACTGCGCGCACTCGAACGACAGGGCCATTACC
ACCATCGCGATCCCCGGCGGCTACGAACTCCCTACCTCGAGAACCTTCCGAATTTGCA
GCAACCATCGCAGAGTTTCGCGCGCACCAAGTTT

>RXA00111-downstream

TAAGCACTGTGGCTGAGGCGCTG

>RXA00112-upstream

GCGTTAGGCTGACGGGCTCCGGTGGCCTAAAATCGAAGCGATCTAAAAATTTGGCAGTTA
ATATTATCGATTTTCGAAAGCGTAGAACACCAACCATTTG

>RXA00112

TTGAGCCCCAGCCTGGTCGTCGATGCCGTATCGTCTCGTTATGGCATTTCGCCCTGTGG
GGTGGTTGGCGTCAAGGCGCCTTCACCTCGCTGCTGTCCACCGTCGGCGTCGTTTCTGGC
CTGGTAGTTGGCGCAGCAGAGCTCCATTTGTATGGGTCTCACCGATTCCACCGCGCTT
CGCTTCCTCCTGGCGATCGGCACCGTGGTGTGCTGGTTGGTTTGGGAAATCTCATCGGC
GCCCCACTTGGGTGCTGCGATTAGAGACAACATCAAATTCCGAAGTTCAGGACCTTAGAT
TCTGGGCTCGGCGCCATTTTCCAAGTATTGGCCACCTTGATCGTGGTGTGGCTCGTCGCA
ATTCCCCTGGCCACAGGCCTCCCGGAAGTGTGCCAGCGGAATTAGAGACTCCCGCATC
CTGGGCTTTGTAGACAAATACACCCCGCAAGGCCTAGATACCCTGCCCTCCAAAATCGCT
GCGATGCTCAGCGAATCCGGCCTCCCAACCTGATTTCCCCCTTACCGGCGGATCCTCG
GTGGAAGTGGACGCCCCGAAATCAACGTACCAACGTTGACCTAGTCGAAGCAATGCGC
CCGTCCGTATCCACGTGATGGGTGACGCCAAGAATGCAGCCGCGACTCATGGGTTCT
GGCTTTGTGGCATCCCCGACTACGTTGTGACCAACGCCACGTTGTTGCAGGTACCTCC
ACCGTCAGCCTGGATACCATGATCGGAACCGCTCCGCAGAGGTAGTGTTCTACGACCCG
AACCTGGACATCGCAGTCCTTTACAGCCCTGACCTCGGCTTGGATCCACTGCCGTGGGCA
TCCACTCCGCTAGACACTGGCGATGAAGCAATCGTCATGGGATTCCCACAGTCCGGACCT
TTCAACGCCTCCCCAGCCAGGGTCCGCGAACGCATCATGATCACCGGCAGCAACATTTAC
GCCAACGGCCAGCACGAACGCGAAGCCTATTAGTCCGCGGATCCATCCAATCTGGAAAC
TCCGGCGGCCCAATGACCAACGAAATGGGTGAAGTGGTTGGTGTCTTCGGCGCAGCG
ATCGACGGCTCCGATACCGGTTACGTTCTCACTGCCGAAGAGGTACAGGAGCGGATCGGC
GACATACCGCGCTGACTCAGCCTGTGATACGATGCAGTGCGCGGTTTCT

>RXA00112-downstream

TAGTCGTCGGGAGCTAGGACCAG

>RXA00133-upstream

GTTACATCAGATGAGGATGCCCTATGGGTGTACACATGCGACGGGTGATTGCAGGAGGA
AATTTGAAGGTGGATACCCAGCGGATTAAAGATGATGAAG

>RXA00133

ATGCTATTTCGTTTCGGCGGCTGACATCGCTGAAAACCGCAACAGGCATCCCAGTCACCATG
TTCGCCACTGTGTTGCAGGACAATCGCCTGCAAATTACTCAGTGGGTTGGGTTGCGTACC
CCGGCTCTGCAGAATCTGGTCATTGAACAGGTGTGGGCGTTGGTGGACGCGTCGTCGCA
ACCCGTCGTCGGTTGGTGTGAGTGATTACACCAGGGCAAATGTCATTTACATGAGAAG
GATTCGCGGATTAGGATGAGGGCCTTCATTCCATTGTCGCAGTTCCTCGATCGTGCAC
CGCGAAATTCGTGGCGTTTTGTATGTTGGCGTTCCTCTGCGGTGCGTCTCGGCGACACT
GTTATTGAAGAAGTCACCATGACTGCGCGCACGTTGGAACAAAACCTGGCGATCAACTCC
GCGCTTCGCCGCAATGGCGTTTCCTGATGGTTCGCGGTTCCCTCAAAGCTAACCGCGTGATG
AATGGGGCGGAGTGGGAGCAGGTTCGTTCCACTCATTCGAAGCTGCGCATGCTGGCAAAAT
CGTGTGACCGATGAGGATCTGCGCCGCGATTGGAAGAGCTTTGCGATCAGATGGTCACC
CCAGTCCGCTCAAGCAGACCAAGCTGTCCGCGCGTGAGTTGGACGTGCTGGCTTGT
GTGCGGCTCGGTACACCAACGTCGAAGCTGCTGAAGAGATGGGCATCGGCGCGGAAACC
GTCAAGAGCTACCTGCGCTCGGTTCATGCGCAAGCTCGGCGCCACACGCGCTACGAGGCA
GTCAACGCAGCACGCGGATCGGCGCACTGCCT

>RXA00133-downstream

TAAAAAGATTTTGTCTTACGACG

>RXA00135-upstream

CCCCGGTTCGCTATAGATCTTGGTTAAATGAACGGCCATAACTTGAGATTCTAGCTGTC
GTTACGCACAGGGGTGGGGAACACGGATAAGGTGGGGCAC

>RXA00135

GTGAAAGACAAGTTTTTAGTCACTGGTGGAGCACAGCTGCAGGGCGCTGTAAAAGTTTAC
GGCGCAAAAACAGCGTTTTGAAGCTCATGGCAGCAGCACTTCTCGCTGAAGGCACAACA
ACTCTAACCAATTGCCCCGAAATCCTCGACGTCCCCCTGATGCGCGACGTCCTCGTTGGT
CTTGGCTGCGATGTCAACATCGACGGCTCAACCGTAACCACTTACTACCCCTGCAGAACTC
AGCTCAATGCTGACTTCCCAGCAGTCACCAATTCCGTGCATCCGTATGTGTGCTTGGT
CCATTGACAGCAGCTTGTGGTTCGCGCAGTTGTATCCCTTCCCGGCGGTGACGCCATTGGA
TCCCGTCCACTCGACATGCATCAAAGCGGCCTGGAAAAGCTTGGTGCCACCACCCGCATT
TCCCACGGTGCAGTAGTTGCAGAAGCTGAAAAGCTCGTCGGTGCCAACATCACCTGGAT
TTCCCGTCCGTGCGCGCCACCGAAAACATCCTCACTGCATCCGTGCATGGCAGAAGGACGC
ACAGTATTAGATAACGCAGCGCGCGAACCAGAAATTGTTGATCTCTGCCGTATGCTTCGA
TCCATGGGCGCCAACATTGAAGGTGAAGGAAGCCACCCATCACCATCGAAGGCGTAGAG
AACTCACCCCAACTCAGCACGAAGTAATCGGCGACCGCATCGTTGCCGGAACGTGGGCA
TACGCCGCTGCGATGACTCGTGGCGATATTACAGTTGGCGGAATCGCACCAAGGTATCTG
CACCTTCCATTGGAAAAGCTCAAGATCGCCGGCGCCAAGGTGGAAAACCTACGAAAACGGC
TTCCGCGTCCAAATGGATAAGCAGCCTGAGGCAACCGACTACCAAACCTCCCGTTCCCA
GGGTTCCCTACAGATCTGCAACCCATGGCAATTGGAATCAACGCAGTATCTAATGGAAT
TCAGTAATTACAGAGAATGTCTTGAATCACGATTCCGCTTCGTGATGAAATGCTTCGC
CTGGGCGCTGACGCGAATGTGATGGGCACCACGTAGTAATCCGAGGAATTGAACAGCTT
TCCTCTACTTCCGTGTGGTCTTCAGATATCCGTGCAGGAGCAGGACTGGTTCTTGCCGCC
CTTTGCGCAGACGGAGTGACCGAAGTTCACGATGTTTTCCACATCGACCGCGGATACCC
AATTTCGTGGAAAATCTGCAGAACTCGGAGCGACCATCGAAAGGGTTTCTTCC

>RXA00135-downstream

TAACGAAGCCTTCCCATCAAGCA

>RXA00137-upstream

TTTACAGAGTGCTTATGAGGCAATCAGCCACTAAGTGTTGAGTAATCTACTAGTTTGGAC
TAGAAGTTACCCACTTTCAGTGAATTTTAAAGGAGAGAAC

>RXA00137

ATGGCTTTGGCTGATACCCGATTTGCCACTCGTCGTCGCGCACTTGCCGCAAAAACCTGGCA
GCTCAACGGATCGACTCAATTTTGGTGACAAGCCCGATCCATGTTGCTATCTCAGCGGA
TTCACCGGCTCCAACGGCGCACTGATCGTGAACAAAGATCTCTCCGCGCAGATCTGCACC
GACGGTCGCTACACCACCCAGATCGCAGAAGAAGTCCCGGACATCGAGGCGCTGATTGAG
CGTGCTCGGCAACGACGCTGCTAGCGCAGGTGAAGGGCCGCGTCGTATAGCAATCGAA

GCCGCACAAACCACCCTGGACCAGCTAGACAGCCTGCGTGAAGCAACCCAGGAAGACGTC
 GAGCTGATCCCCGTGTCTAGGTGTTGTGGAATCCATTCGCCTGACCAAAGACAGCTTCGAA
 CTCGACCGCCTCCGCGATGTCTGACGCGTGGCTTCCCAAGCATTCTGAAGATTACTCGCA
 GCAGGAGAAGCTCGCCGAAGGCCGATCAGAGCGCCAAGTCGCCGCCGATCTGGAATACCGC
 ATGCGCCTGTTGGGAGCAGAACGCCCCAGCTTCGACACCATCGTGGCCTCTGGACCTAAC
 TCCGCGAAACCACACCACGGCGCAGGCGACCGCATCCTCCAGCGCGGCGATCTAGTCACC
 ATCGATTTCTGGCGCACACGCACGCGGATTCAACTCCGATATGACCCGCACCCTCGTTATG
 GCGAAGCAGGGGAGTTCTGAAGCAGAAATCTACGACATCGTCTGCGCTCCCAACTCGCT
 GGTGTTGAAGCAGCCTACTCAGGCGCCAACCTCTTCGACATCGACGCAGCATGCCGCAA
 ATCATCGAAGACGCAGGCTACGGCGAATACTTCGTGCACTCCACCGGCCACGGCATCGGA
 CTTGAAGTCCACGAAGCCCCAAGCGCATCCAAAACCTCACAAGGAGTCTTAGAAACCGGC
 TCCACACTGACCATCGAACCCGGAATTTACGTCCCCGAAAGGGCGGCGTACGCATCGAA
 GACACCCTGATTATTACCTCAGGAGCACCGGAAATCATCACCAAGGTGAGTAAGGACCTC
 ATCGTGGTG

>RXA00137-downstream
 TAATCTAGGTGAGCTAATCGGTC

>RXA00139-upstream
 GACCGGAAACGTACTCAAGGTAGACACCCGCGACGGTTCTCTACCTCTCCCGGTTAACAA
 CTAAGATTCTTAAACCTTTAAGAATCAGCCAGAAACATT

>RXA00139
 TTGATTGAACAGGAACAAAGAGAACAAAACGTGAGCGAGCGTCGACAAGATTACAAGCGA
 CACGGATCCCGCTACAAGGCGCGCATGCGTGCCGTAGACATCTATTGAAGCGGAATCC
 CGCGATGTTGATCCCGTGGCCATCATCGATGACCGCCACAAGTTGGCGCGCGATACCAAC
 CCCATCGTTGCACCGGTAGCGGAATACACCGAAACCATCATCAATGGCGTTGCCGTTGAA
 CTCGATACCCTCGATGTCTTCTCGCGGAACACATCGCAGAAACCTGGACTCTCGGACGA
 CTCCCATCCGTGACCGCGCAATCCTGCGCGTCTGCTTCTGGGAAATGATCTACAACGCC
 GACGTTCTGTCTACACCGCAATCGTTGAAGCCGTGGAAATTGCCTCCGAATACTCCGGA
 GACAAATCCAGTGCCTACATCAACGCGACACTTGACGCCATGGCATCAAAGGTGGAGACC
 CTCCGCGAGCGCGCCGCCAACCCAGAAGCAGTTCTGGCGGAAGCTTCCGAATCTCTCGAT
 GATGCTCCGGTTCGCGCCGTGGGATGACTCGGATGCTTTGGATGACTCGGATGAAGATTTT
 GAGGCTGTAGATGCTGCTGAGGTTTTTGGAGGCTGAAGAGACTGTAGAGGTTTCCGAAGTC
 GCAGAAGACTCTGAAGTTTCAAAGGTTTTCAGAAGAAAAGGCTGACGAGAGC

>RXA00139-downstream
 TAAATCTTTTCTGGCTAACACCA

>RXA00143-upstream
 GGACACCCGGTGTATACCCACTGGGACCTCATAAATCCACTGACTTGAGAGAAGCCCCGTGT
 GAGTCTGACCACAAGCCATTTTATTCCTTTTCCCCGAGAA

>RXA00143
 ATGGTCTGGGATTGGCATACCCGCAAGGGCGCTGTCTGCACGTCTGACTCCCCCATTCATC
 CCACTTAACCCCATACGCAGGCAGAACGCCTCGCCGACGGCACCACCATCTTCAGTCTC
 CCCGCGGGACTTAAATGGGTGGCACGCCACGATTTATCCGGGTTTTTGAACGGGTACGC
 TTCACCGACGTCTGCCTCACCGCCCCGTGTGAAGGCCCTCGCAAACTGGCGCCACGTGCAT
 AATTTCTGTCGACCAAGACGGCGGCACACTCATCACAGATTCCGTGAGCACCCGCCTACCG
 GCATCCACACTCACGGGCATGTTTCGCCTATCGCCAAACTCAGCTCATCGAAGACCTAAAA
 TTCTTAAGTAGAACAAGCAGCTTTTTCGACGGCTCCCCCTCACCGTAGCCATCACCGGC
 TCCAGGGGGCTCGTCTGGCCGCGCGCTGACAGCGCAGCTGCAAAACCGCGGCCACGAAGTC
 ATCCAACCTCGTGCGCAAGAACCACCAACCTGGCCAACGTTTCTGGGATCCACTCAACCCA
 GCATCCGATCTCCTCGACGGCGCGGATGTTTTGGTTACCTTGCCGGCGAACCGATCTTC
 GGGCGATTCAACGACTCCACAAAGAAGCCATCCGCGAGTCCCGCGTACTTCCCACCAAA
 TTCTTCGAGAAATAGTTGCCGAATCCACCCAGTGCACCAACCATGATTTCCGCCTCTGCA
 GTTGGATTCTATGGTCACGACCGCGGCGACGAGATCCTGACCGAAGAATCCGAATCCGGC
 GATGATTTCTCGCCGAGGTCTGTAGGGATTGGGAACACGCCACTGCTCCTGCCTCAGAT
 GCAGGAAAGCGCGTAGCCTTCATTTCGACCGGCGTGGCCCTCAGTGGACGCGGTGGCATG

CTTCCCCTGCTGAAAACCTGTTCTCCACCGGACTAGGCGGAAAATTTCGGCGATGGCACC
 TCCTGGTTTCAGCTGGATCGCCATCGATGACCTCACCACATCTACTACCGCGCCATCGTG
 GACGCCCAGATCTCCGGCCCCATCAACGCGGTAGCCCCCAATCCAGTCTCCAATGCGGAC
 ATGACCAAGATTCTGGCCACCAGCATGCACCGTCCCGCATTCATCCAAATTCCTTCCCTC
 GGCCCCAAAATTCTGCTCGGAAGCCAAGGCGCTGAAGAGCTAGCCCTGGCGTCCCAACGC
 ACCGCCCCAGCAGCACTGGAAAACCTCAGCCACACCTTCCGCTACACCGACATCGGGGCC
 GCCATCGCACACGAACCTTGGCTACGAACAACCTCGCAGATTTGCCCCAACAGCAAGAAATC
 GAAGCCGAACGCAACAGGAACGAGCCGAACCTCAAAGCCGCCAAGAAGATCGCCAAGAAA
 GCCCCAGTCTTAGAGGAATCCCCCACCAACCTGGAAGATCCCGAAGAAGTAGAGCAAAGT
 ATCCTTTTCATCAATCCTCAATTTCCGCCGTAAGCGCAACGAC

>RXA00143-downstream
 TAAAACCACCATCTGTAGTGTGG

>RXA00152-upstream
 GTCATTGATATCCAAGGCACGACCGCGATTGTATGGAAAGAAGCCTAAATTTTAAACAAT
 CAAATAGTACTGGCCATTCCCAACTAAAACCTGGAGTAACG

>RXA00152
 ATGACAGGACTAATCCTCGCCATAGTTTTCTGGTCTTTGTGCGCGTTCGTGGTGATCAAG
 TCCATAGCCCTGATTCCCCAGGGTGAAGCCGCCGTCATTGAACGCCTTGGTAGCTACACC
 CGCACCGTTTTAGGTGGCCTGACCCTGCTGGTTCATTTCGTGGACCGAGTACGCGCAAGG
 ATCGACACCCGTGAGCGCGTGGTCTCATTTCCACCGCAGGCTGTTATTACCCAAGACAAC
 CTGACCGTGGCCATCGATATCGTGGTGACCTTCCAAATCAACGAACCAGAGCGCGCCATC
 TACGGCGTGGACAACCTACATCGTCCGTGTGGAGCAGATTTCTGTAGCAACACTTCGAGAC
 GTTGTCCGTGGCATGACCCTGGAAGAAACCCTCACTTCACGTGACGTGATCAACCGCCGC
 CTCGTGGCGAGCTCGATGCAGCAACCACCAATGGGGCCTGCGCATCAGCCGTGTGGAA
 CTAAAGGCAATTGATCCGCCACCATCCATCCAGCAATCGATGGAAAAGCAGATGAAGGCA
 GACCGTGAAAAGCGCGCCACCATTTTGACCGCAGAAGGTGACGCGGAAGCCGACATCAAA
 ACTGCCGAAGGTGAAAAGCAAGCCAAGATCCTCCAAGCTGAGGGTGAAAAGCACGCATCC
 ATCCTGAACGCAGAAGCAGAACGCCAAGCGATGATCCTGCGCGCCGAAGGTGAACGCGCA
 GCACGTACCTCCAGGCGCAGGGTGAAGCCCGAGCAATCCAAAAGGTCAACGCAGCAATC
 AAGTCTGCCAAGTTGACCCCAGAGGTTCTTGCTTATCAATACCTCGAAAAGCTTCCTAAG
 ATCGCAGAGGGCAACGCCTCCAAGATGTGGGTGATCCCAAGCCAGTTCTCCGATTCTCTG
 GAAGGTTTTGCGAAGCAGTTTCGGCGCAAAGGATGCAGAAGGTGTCTTCCGCTACGAACCA
 AACACCGTGGATGAAGAAACCCGCGACATCGCAAACGCCGACAACGTGGAAGACTGGTTC
 TCCACCGAATCAGACCCTGAAATCGCAGCAGCAGTCGCCGACGAAACGCCGTGGCCAAC
 AAGCCAGTCGATCCAGAACCCTGGTGAAGATCCTTTCCAAGAAGACCGCACGACGCTTGAA
 CCTGAAGCAGTATTGGAGGCTTTGCAAAACGGAACCACTACACAACCTGAGGTTGAGGCA
 GCACCTCCTACCGCAAACTTCGCCCAAGAATTCCCTGCACCACAGGCAAACCCTGAAGAT
 TACTCCGACCAACACCGAGAGAATCCTTACGGAAAC

>RXA00152-downstream
 TAATCAGGCATAAGAAAAGGCGG

>RXA00177
 CTGCCTTATGTTCTTGCCCTTCAACGCGCCATATGCGCCACAGGCAGAACAACGCGCAGCG
 GCAGCTTTTCGGTTCTGCGACAGCACTTGAAGGATTGCAACAGCTGCGTGCCCAAGTGGGA
 GCACCACAGCGACTATCCGATTACGGATTACCGCAGCAGGAATCCCAGAGGCAGTGGAA
 ATCATCTTGGAGAAAGTACCGGCGAATAATCCACGGACGGTCACAGAAGAAAACCTCACT
 GCGCTGCTTACCACAGCGCTCAACGGCGACGATCCAGCAACTTTGAAT

>RXA00177-downstream
 TAAGGAGACCAACATGACTATTT

>RXA00178-upstream
 GCGAATAATCCACGGACGGTCACAGAAGAAAACCTCACTGCGCTGCTTACCACAGCGCTC
 AACGGCGACGATCCAGCAACTTTGAATTAAGGAGACCAAC

>RXA00178

ATGACTATTTTCAGCACAAACAGCAAGCAGTGGGAAGAAGACCTTGTAGAGCGCGTACTCGCA
TCTTTTGTATTCGTGTGAAAACCTTCGCCTCAAAGTAGTGATGAAATCCCTGACTGTGCAT
CTCCATGATTTTCATCCGCGATGTTTCGACTCACTGAAGAAGAGTGGAACTACGCCATTGAT
TTCCTCACCAAGGTTGGGCATATCACCGACGATAAGCGCCAAGAATTCGTGTTGCTCTCT
GACACCTTGGGTGCATCCATGCAGACCATCGCTGTTAATAACGAAGCATATGAAGACGCT
ACCGAAGCAACAGTCTTTGGCCCCCTTCTTTGTCGATGATGCGCCACTGGTCCAAAACGGA
GATGACATTGCCTTTGGCGCAGTCGGCCAGCCGGCATGGGTGGAGGGAACGGTCAAAGAC
ACTGAAGGAAACCCCATTTCCCAATGCACGCATTGAAGTATGGGAATGCGATGAAGATGGA
CTTTATGATGTGCAATACGCCGATGAGCGCAGTGTGGACGCGCACACCTGTATTTCAGAT
GAAAACGGCGAATACCACTTCTGGGGACTAACTCCCGTGCCATATCCCATCCCACACGAT
GGTCCAGTAGGACAAATGCTCCAAGCAGTTGGTCGTTCCCCCGTTCGTTGCGCGCACCTA
CACTTCATGGTGACTGCGCCAGAGAAGCGAACCTTGGTAACCCATATCTTCGTTGAGGGC
GATCCGCAGCTAGAGATCGGCGATTCCGTGTTTGGCGTGAAGGACTCACTGATTAAAGAAA
TTCGTTGAGCAACCTGCAGGAACCGCAACTCCAGATGGTCGCGATGTGGGTGATCAAAC
TGGGCACGCACACGTTTTGATATTGTGCTCGCCCCCGCAATGTC

>RXA00178-downstream

TAAGTAGAAGCAGCAAAAAACCA

>RXA00226-upstream

CCGCCTGCGGTGTACAGCGAGCGCGCCCGGCGTCTGAAAACCTGCACTTGGTGAGAACGTG
ATTGTTTCATGATGTCACCTGTTCCATCGGTACGGAGGGGC

>RXA00226

ATGAACCTTATCGATGCCGGCCTTCGCTACCTGGGTTCTGATCCTAGATTTCTCACGCACC
CTCATGGCAGCCCAATCTCCAGGGCAAAAACGCCCTGATTTTCCGCGCCGACGCGCTC
CAGCCCGCAAGCAGGGGAGCCGACGTCATCATCGCGGACCCTGCCAGACGCGCCGGGGGC
AAGCGCATTACAAATCCGGCACAGCTCCTGCCACCTCTGCCTTCGCTTCTCGACGCCTGG
ATCAACCAACCACTCGCCGTAAATGTGCCCCCGGCCTTGATTTTTCGGAATGGCCAGGT
CTCGTCAGTATTGCCAGCGTTGATGGAGGCGTGAAAGAAGCATGCCTCTACACTACGGAT
CTGGCAGATGGGGAAACTCGCGAAGCTATCGTGATCAAAGATGGGCTCATTGACCGCATC
ACCAACTTTGAAGACGATGCCACGGGACAAGACCTTGC GGCTGCACCTGGTGAGTTTCATC
ATCGACCCAGACGGTGCCATCGTGCGCGCCGGTTGGTTTCGCCACTATGCAGTGCGTGAG
CAGCTGTGGATGTTGGATGAGCGGATCGCATACCTTACGGGCAATCGGATTCCAGAGGGT
ACCAGCGGTTTTAGGTTTTATTGAAGAGGTTCCGCTGAAGAAGCTGAAATCGGCGATGGCA
GCACATGATGCGGGGGCGGTTGAAATTTTAGTGCGTGGTGTTGATGTTGATCCTGATCAG
TTGCGGAAAAGATTGCAGCTGAAGGGTACCAAGGCGATGTCTGTGGTGATCACTCGAATT
GGCAGCCGAGGGGTTGCATTGATTTGTGGTCTCGCGAGCGCGCC

>RXA00226-downstream

TAAAGCCGATGCAAATAAAATTG

>RXA00231

GATCGCCTTCGTAAAGTCTCCTTCACCGGCTCCACCCAGTTGGCCAGCAGCTGCTCAAA
AAGGCTGCCGATAAAGTTCTGCGCACCTCCATGGAACCTTGGTGGCAACGCACCTTTTCATT
GTCTTCGAGGACGCCGACCTAGATCTCGCGATCGAAGGTGCCATGGGTGCCAAAATGCGC
AACATCGGCGAAGCTTGCACCGCAGCCAACCGTTTTCTTAGTCCACGAATCCGTCGCCGAT
GAATTCCGCCGCTCGCTTCGCTGCCCGCCTTGAAGAGCAAGTCCTAGGCAACGGCCTCGAC
GAAGGCGTCACCGTGGGCCCCCTGGTTGAGGAAAAAGCACGAGACAGCGTTGCATCGCTT
GTCGACCGCCGCTCGCCGAAGGTGCCACCGTCTCACCGGCGGCAAGGCCGGGCACAGGT
GCAGGCTACTTCTACGAACCAACGGTGCTCACGGGAGTTTCAACAGATGCGGCTATCCTG
AACGAAGAGATCTTCGGTCCCCTCGCACCGATCGTCACCTTCCAAACCGAGGAAGAAGCC
CTGCGTCTAGCCAACTCCACCGAATACGGACTGGCCTCCTATGTGTTCAACCAGGACACC
TCACGTATTTTCCGCGTCTCCGATGGTCTCGAGTTCGGCCTAGTGGGCGTCAATTCCGGT
GTCATCTCTAACGCTGCTGCACCTTTTGGTGGCGTAAACAATCCGGAATGGGCCGCGAA
GGTGGTCTCGAAGGAATCGAGGAGTACACCTCCGTGCAGTACATCGGTATCCGGGATCCT
TACGCCGGC

>RXA00231-downstream
TAGCATCTGCCCCTTTACAAATC

>RXA00249
GGTGT'TTTACCTTCCAAGGTGTAGT'TTTGCTTGTTCGACGCCCGCCACGGCGTTCGTTCGAG
CAGACCCGCCGCCACCTGTCCGTATCGGCTCTGCTGGGCGTACGCACGGTGATCCTCGCA
GTCAACAAAATTGACCTTGTGTATTACAGCGAAGAAGTCTTCCGCAACATTGAAAAGGAA
TTCGTTGGCCTGGCATCTGCACCTGATGTACAGACACCCACGTTGTTCCAATCTCTGCG
CTCAAGGGCGACAACGTTGCAGAACCTTCCACCCACATGGATTGGTACACCGGACCAACC
GTGCTGGAAATCCTGGAAAACGTAGAAGT'TTCCACGGCCGTGCACACGACCTGGGCTTC
CGTTTCCCAATCCAGTACGTATCCGCGAGCACGCCACCGACTACCGTGGCTACGCCGGC
ACCATCAACGCTGGTTCCGTCTCCGTGGGCGATACCGTGTACCTACCTGAAGGCCGCACC
ACCCAGGTACCCACATCGATTCCGCTGACGGATCCCTCCAGACCGCATCAGTTGGAGAA
GCCGTTGTCTGCGCCTAGCCCAGGAAATCGACCTCATCCGCGGCGAACTCATCGCTGGC
GAAGACCGCCAGAATCCGTTCCGTCTTCAACGCCACTGTTGTTGGCTTGGCCGATCGC
ACCATCAAACAGGTGCAGCAGTCAAGGTTTCGCTACGGCACCGAGCTGGTCCGCGGACGC
GTGCGAGCCATCGAACGAGTCTCGACATCGACGGCGTCAACGACAACGAAGCACCAGAA
ACCTACGGCCTCAACGACATCGCACACGTGCGCATCGACGTTGCAGGCGAACTCGAAGTT
GAAGATTACGCTGCCCCGGCGGCCATCGGATCCTTCTCCTCATCGACCAATCCTCCGGC
GATACCCTCGCAGCTGGCTTGGTTGGCCACCGCCTACGCAATAACTGGTCGATC

>RXA00249-downstream
TAGACCAAGTGTCTTAGGCAAGAC

>RXA00277-upstream
ATGTGGTGGACAATGTTTCGACGATTGGTTCCGACCTTATCTCTGGTCCTACGGTCCACCA
CAGCTGCAGTACATGCCAGAGGAAGAAGGGACAGAAAACG

>RXA00277
ATGAAGGATAATGAAGATTTTCGATCCAGATTCACCAGCAACCGAAGCTGTTGCCTTCAAC
CCTTTCGACGATGACGATGAGGATGATTCCCCCGCTACCTCAGCCGTTGCCTTTAACCTT
TTTGAAGATGACGATGACGACGATGAGTTCCAAGGCGAAGGCCTAGAATTCTGTGCGC
GACCTCGACAATCTGCGAGCCACCCAAGGTCAAATGGTGGTGGAAACAACCAGCAGTTGAA
GACAGCCTCGGGTCAGCATCTGCGCATACGGAGACAACCTGCGGCCTCACTGCGTCCCCGC
CCAGAGGTGGATCCAAGTGAGAGGAGTCTGTCGACAAGCAATTTTCGCTGTTCCGCGAACGG
CGCCGCGTAAGGCGCCAATCCCGCCAGTTGCTGATGGCATGGTGGAAATTGCCGTTTCATC
ACCCCCAAACCGGAAGATGAGCTGCTCATCGACCCGAAAAGAAGCGCAAACCTGGTGTG
GCAGCGCCGCAACTTGTGCGGGCGATATCGTCGAGAGCAATATGAAGTCTCGGCGTC
ATCGCGCACGGCGGCATGGGTTGGATTTACCTCGCCAACGACCGCAATGTGTCCGGCCGC
ATCGTGGTGTCAAAGGCATGATGGCGCAATCTTCCGTTCAAGACCAAGGCACCGCTGAA
GCCGAACGCGAATTCCTCGCCGACATCACCCACCCGGCATCGTGAAGGCCTACAATTC
ATCGACGACCCCCGCGTCCCCGGCGGATTTCATCGTCATGGAATACGTCAACGGCCCCCTCC
CTGAAAGACCGCTGCAAAGCCCCAACCCGACGGCGTGCTCCGCGTCGACCTCGCCATCGGC
TACATCCTCGAACTCCTCCCCGCCATGGACTACCTGCACCAACGCGGCGTAGTGTACAAC
GACCTCAAACCCGAAAACGTATCGCCACCGAAGACCAAGTTAAACTCATCGACCTCGGC
GCGGTTACCGGCATCGGCGCATTCGGCTACATTTACGGCACCAAGGATTCCAAGCACCC
GAAGTAGCCACCCATGGCCCCCTCAATCTCCTCCGATATTTTACCATCGGACGCACCCCTC
GCAGCACTACCATGCCCCCTCCCCGTTGAAGACGGTGTCTCGACCGGGCATCCCCCTCG
CCCAAAAATTACCTCTTCTGCGCAGGCATTTGTGTTCTACCGCCTCCTGCAACGCGCC
ACCGCCGACGACCCCCAACACCGATTCCGCAACGTACGCGAACTACGCACCCAACTCTAC
GGCGTACTCGGTGAAATTTTGGCAGTCCGCGACGGCAAACAATACCGCCACAGCACTCA
CTATTCTCCCCACAGCAAGCACCTTTGGCACCAAAACACCTCGTGTTCGCGACCGACCGC
ATCATCGACGGCATCGAACGACAAGCACGCATCACAGCACCAAGAAATTGTCTCCGCGCTG
CCTGTCCCACTCATCGACCGCACCGACCCCGGCGCCCGTATGCTCTCCGGATCCTCCTAT
GCAGAACCTCCGAAACCTTGAAACTCTGCGCAACTCCATGGAAGACGAGCAATACCGC
CAATCAATCGAGATCCCCCTCGGT

>RXA00299-upstream

GGGTGCCGGCGGCGGTC

>RXA00299

ATGCTGCCCCAACCCTCCCATATGTCATCGCTGAGCAGTTCGGCACCTTGGCGGAGTTG
TACCCAGACCGCATCGACCTCGGCATGGGCCGTGCCCTGGCACGGACATGAATACCTTG
CGCGCTTTACGACGCGACCTCAGTCCGCCGAGAACTTCCCGTCCGACGTTGTCGAGCTG
AACTCTTACCTACCGGCCGTTCCCGTCTCCAGGGGTTAACGCAATTCCAGGCAAGGGC
ACCAACGTACCGCTGTACATCTTGGGTTCATCCCTCTTTGGTGCACAATTGGCAGCACAG
TTGGGTATGCCTTATTCCTTCGCATCCCACTTCGCACCAACTCACCTTGAGCACGCGGTG
CAAACAAACGGGATAACTACCAGCCTTCAGAGCAGCATCCTGAGCCTTATGTCATTGCG
GCCGTCAATGTACCGCATCTGATTCCACTGAACAAGCCCACGATGATTTCTACAAGGTA
GCGCGTGCACGCGTGAAGAACATGGCATTGCCTGGCCGACAAGTTACTGATGAGCAACTT
GATGAACCTCATGGATTACACGCTGCTCGCCAAATTGTCGACATGCTTCACTACACCGCT
ATAGGCACTGGATCCGAAGTTAAAGAATACCTAGACGGTTTTGTAAAGACGGCACAGGCT
GATGAACCTGATGATCTCCCTGCAATCCCCCAACACTGAAGCAACCACGCGCAATATGGAA
ATTCTTGCGGATGCGTGGATTAAT

>RXA00299-downstream

TAGTACCGATGGGCCGGTAGACA

>RXA00332-upstream

AATGAACCTCTGGAACCGCCATGCAGCAAAACCTCTCCAATTGGTAATCTTTGACTCCCAG
GTTACGCCAGCCCTGCGACACCACCATCTAGGGTTAGAGT

>RXA00332

ATGGCCTTCAACAAAGCGTACGATGCACTTCGCGCCCCCTCAAATCACCTCGGACTCATG
ACACCAACCGCCCTGAACCTAGGGCGCAGTGAAATGGTTCCAACCGAAAATAGCATCGAA
CTAGCCATACAAGCAGAAGCTCAAGGATTCAGAGGCATGTGGGTTCGAGACGTTCCACTC
GCAGTTCCTCAAGGAATCACTGTTACCGATAAACAGGCTACGTATTTAGATGATCCATTC
TTAATGCTCGGTGCGATGGCCTCTGTGACCTCTACAATCGCGCTGGGCACTGCAGCGACC
GTGCTTCCACTCAGACATCCGCTACATGTGGCGAAATCCGCGCTCACCTTGATCGACTC
AGCCACGGACGTTTTGTTTTAGGCATCGGCTCTGGCGACAGGCCTGAAGAATTCGAGATT
TTTGGCAAAAGCTTAGACAATCGACGCGCTGATATTCAGTCTGGGTGGGCAATTTTGCCT
GCAGCTTTGTGCGCCGATCCTGCGATGCGGGCCGACCTTGAATTTGCGCCAACCACGCCA
CCTGAAGCTCAGATCCCCATGATCGCTGTAGGTTCTGCCCCGACAAACAGTGCAATGGATC
GCCGAAACGCCGACGGATGGGCAACCTACTACCGCCCCGCTGAAGCTCAAGTCGGACGC
CTCGATCTCTGGGACAAAGCCCGTGGTGGCACCCGCCCTTGT

>RXA00332-downstream

TGATTTCTCCATGGGGCTCAAC

>RXA00354

GGCCTCATTTGGCGCAAATGGTGGATATGTGGAAAGCGCACAGGAGTCTGTGTTCCACCGC
CGTTTGTGCGGTGAGGAGACCCGCCACATTTGTGGAGTGGCTCTACAACCGTGGTTTGGAG
TTTTATCTCGAGTCCAACAACGGTTTGTATGCAAGCCGTGGTTTCCGTGAGGCTTCTAAG
CCAGTGCTGTCTCGCCTTTTCGGAGAAGACCGACGTGACAGTCGATAGCATGTACCCGGAT
ATGTTCTGGGGCGCGAGCCTTGATCGTGACGATGTGAACAAGATCAGTTACATCTTCAAT
TCTCAGGAAGATTTGGACGCGCGCTGAGGCGTTCCCTAACCTGGAGCACACCACGTGG
GGTGGTCAGACGGGTGCGTTGTTTCGGCACGATCGGTGTGTCTGTCAACAAGAAGATCGGC
GTGGATCGCCTGCTGAAGTACCTGAACGCGATCGCGCAAACACCATTTGCGTTTCGGCGAC
AGCGATGAGGATCTCTCCCTATTTGAGGCGAGCGCTTACGGCGTCGCGATGGGCGAGGCC
ACCGAATCGCTCAAGGCTGCTGCTGACCTGGTCACGGATGCTGTTGGGCAGGACGGCTTG
CGCAATGCGTTTTTAAAGCTTGAGCTTATCGACGCC

>RXA00354-downstream

TGACCCCATCAAAGAACTTCCCA

>RXA00372-upstream

GCAGACATTTCCATAAGTCCTGCGAAATGCGCCCATTCATGTAAAGATGTTATTTCTCTCC
CCCAAACACTCCTTAAATTTCAAGAAGGGCCTTATTTTC

>RXA00372

ATGTCTTCGAAGCACCCCTTTGAAGCGCACTGCCGTTACTGTTTTTGCCTCGGCGCTTCC
GCTGCTCTCCTCGTGGCTTGCTCTGAACCTTCTGAGGACGTTTCCACCGCAGAGACCACC
ACTGCAAGCTCTTCCGCTAACGCATCCGATGCAGCCGGTGAAAAAGTAACCATCACCGTC
TACACCTCTGAGCCTGAGGAAAAGGTCGATGAGATCAACAAGGCGTTCATGGAAGCCAAC
CCAGATATTGAGGTTGAGGTGTACCGCGCTGGTACTGGCGATCTGACTGCTCGCATTGAA
GCTGAAAAGGCATCCGGTTCTATCGAGGCTGATGTGTTGTGGGCTGCGGATGCTGCAACC
TTTGAAACTTATGCAGCACAGGGCGACCTTGCAGAGCTGGAAGATGTTGAGACTTCCGAC
ATCATTGAAGAGGCTCTGGATGCTGAGAACTTTTATGTAGGCACCCGCATCATCCCAACC
GTGATTGCATACAACACTGAAGTTGTTGATCAGGCTGAGCTTCTACGTCTTGGGCTGAT
CTGACTGATCCTAAGTATGCAGGCCAACTGGTCATGCCGGATCCAGCTGTGTCTGGTGCT
GCAGCCTTCAATGCTTCTGTGTGGAAGAACGACCCTGCGCTTGGCGAAGCCTGGATCACC
GCCTTGGGTGAAAACCAACCAATGATCGCTCAGTCCAACGGCCCAACCTCCCAGGAGATC
GCTGGCGGTGGCCACCCAGTGGGCATCGTGGTGGACTACTTGGTGCGCGACTTGGCTGCT
GCTGGATCTCCAATCGACACCATCTACGCATCGGAGGGTTCTCCTTACATCACTGAGCCT
GCAGGTGTGTTGCTGATTCTGAAAAGAAGGAAGCAGCCGAGCGCTACATCAACTTCCTG
CTGCTGTGTGAAGGCCAGGAAATCGCAGTTGAGCAGGCATACCTGCCAGTGCCTGAAGAT
GTGGAATCCAGAGGGCACCCCGAGTTGGCTGACATCGAGCTCATGACCCCTGACCTG
GAGGTTGTAACCGCTGATAAGGCGGCTGCTGTTGAGTTCTTCCAAAACGCAATGAAC

>RXA00372-downstream

TAGTTTTCTTATGCAGTTATCTC

>RXA00470-upstream

TCTATTGTGGAGTGTGAGGCTGATAAGTGAATGGGGGAAAGCCCTGAAAAGGTGGCGTT
CAGGGTCTTCCCTGATGGTTTGGTGTGCGCAGGGGCATGAC

>RXA00470

ATGATCGAAGATATGAGTAACACACCTGCGCCTTATACCCCGCAGCCTGCGGGGCAAGCG
GTGCCTTTATATCCACGTTTACCCGGTCAAGAGATGGTCGGGTGTTGCGGGTGTCGCA
TCGGGGCTGGCAAAGCATCTTAATGTGTGCGGTGTTTTGGGTTTCGTGCGCTGCTGATTTTT
GCGGCGTTGCTGAGCGGTGCGGGTCTTTTTGCGTATGCCTTGATTTGGATTTTTACGCGC
ATTGAGAAAAAGGGGAGTGGGGAGGCGTCGACAAGCAAGCGCTGGGTGTCGTGGTGCCTG
GTGCTGCTCGCTATCGGTGGTGCTGCGGCGTGGTGATGCTGAGCACC GGCTTCGCGGTG
GGCAGTTGGTGCCCATCGGCGTGGTGGTGGGCTGTTGATGGTGTGGCTGGCGTAT
GACCGCGGGGTGGAATCCGGCCCGAATCTGCTGATTATTGCCACCGGCGGTGTGTTGATG
CTGGTGGCGATCGTGCTGATCGTGATGAATTGGAACACCCAGGACGGCTTCGTATGGCG
CTGGTGGCCGTGGTGCTCACGCTGGTGGGTGTGGCTGCGCTGGGCGTTCGCTGTGGGTG
CGGATGTGGGATCAGCTGGGCGAGGAGCGCGGAAAAAGCCGAGCTGCTGAGCGCGCA
GATATTGCTTCCCGCTGCATGATTCGGTACTGCAGACCTTGGCGCTGATTCAAAAGCGT
GCCGACGACCCCGCGAAGTCGCCCGCCTGGCCCGCGGCGAGGAACGCGAGCTGCGTCAA
TGGCTGTTTGATTCCCAAGATAAAACACCTCAAACAACCGGCACTGTCTTTACTGCGTTG
GAGCGCGCTTCGCGTGAAGTCGAGGATATTTACGCTCTGCGTATCGTGCTGTGACCGTG
GGAACCGATGAAGCGCTGACTGAGAAAACGCAGGCAGCGGTGATGGCAGTCCGCGAAGCA
CTCGTGAACGTGGCCAAGCATGCCGCGTGGAACCGCGATGTGTACGCCGAAATTATG
CTCGGCGAACTGAACATTTTCGTCCGCGACCGCGGTGCAGGATTGCACCCGACAACATC
CCCGACGGGCGACCGGGCTCGCCGAATCCGTCCAAGGCCGCTCGAACGAGCCGGCGGA
AAAGTACGCATCAAATCTGAAATCGGCGAAGGCACCGAAGTGGCAATCACCATGGATGTG

>RXA00470-downstream

TAGTTGGTCTGACGCGGTGTCT

>RXA00471-upstream

ACGCATCAAATCTGAAATCGGCGAAGGCACCGAAGTGGCAATCACCATGGATGTGTAGTT
GGTCTGACGCGGTGTCTTCGGGGCTGTAACCTGAAAGGC

>RXA00471

ATGGTTGATGTGTTTTTGGTCGATGACCACTCCGTGTTTCGCTCCGGCGTCAAAGCAGAA
CTAGGCAACGCCGTACAGTAGTCGGCGAAGCAGGGACGGTGGCCGACGCCGTAGCCGGC
ATCAAGGCAAGCAAACCAGAGGTAGTGCTTCTCGACGTCCACATGCCCGACGGCGGGC
CTCGCAGTGCTCCAGCAGATCAACGACTCCGATGTGGACACCATTTTCTTGGCACTCAGT
GTCTCTGATGCTGCGGAAGATGTCATCGCCATCATCCGTGGCGGTGCCAGGGGATACGTG
ACCAAATCAATCTCCGGTGAAGAACTCATCGAAGCCATCAACCGCGTGAAATCCGGCGAC
GCATTCTTCTCACCACGCCTGGCAGGCTTTGTCTCGACGCCTTCGCCGCCCCGATTCC
GCAGCTGGCGCAGGCATTGTTCGACGCACCCGAAAAAGACGCCGCCGTAGAATCCGGAAAA
ATCCTCGACGACCCAGTTGTTCGACGCCCTCACCCGCCGCGAAGTCTCGAAGTCTCCGCTA
CTAGCCCCGCGGTACACCTACAAAGAAATCGGCAAAGAACTGTTCAATTTCCGTCAAAACC
GTGGAAACCCACGCCTCAAACATTCTGCGGAAAAACCAACAATCCAACCGCCACGCGTTG
ACCCGGTGGGCTCACTCGAGGGATCTTGAC

>RXA00471-downstream
TAATGGCGGCTAAAAAGAGTGGC

>RXA00499
GGTAATGATATTTTGGAAAAACCCACAGCAGAAGTAGTGGAGTACTTATCCACCTGCGC
GCAGATGGCATTGTGCGAGATGCTGAAGCCCTGCGTAAGCATTGTTGGTGTGAATCAGTGG
AACCTTTTAGGCCAGTCTTTCGGAGGTTTACCACCCCTGCATTACTTGTCCCGGCACGCC
GATTCTTTGGACAACGTGTTTATTACCGCGGCTCTCAGCGCTATTGATCGCCACAGCAGAA
GACGTGTATGCCAACTGTTACAACCGCATGCGCCGAAACTCTGAGGAATTCTACCGTCGC
TTCCCGCAATTACGGGAACTTTCCGAGGGTTGGTTAATCGTGCTCGCGCCGGGGAGATT
GTGCTTCCACCGCGGAAGTTGTGTGAGAAACAGGCTGCGATCCCTTGGTCACTTGTG
GGTAGCAATGACGGCTGGTTTGTATCTGTACAACCTGCTGGAATTAGATCCCACCTCCAAC
GCTTTTGTCCATGACCTGGCAGGACTTTTGCTTTCGGCAACCGCAACCAATTTATTAC
GTGCTCCATGAGTCCTCTTACGCCGACGGTGTTGGTGACAAATTGGGCAGCAGAGCGTGTG
CTTCCAGAGGATTTCCGCGAGGATCCAACACTGCTCACCGGTGAGCACGTGTTCCAGGAG
TGGACAGACACCGTGCCGTGCTCAAGCCGTGGAAGGACGTTGCCCTGGCATTGGCTCAG
CAGGAATGGCCCAAGCTTTATGATGCGAAGGCATTGGAAACTCACAGGCCAAGGGCGCT
GCAGCAGTGTATGCCAATGACGTTTTCGTCCAGTGGATTACTCTCTGGAACCGCACAA
CACCTGCCCGGTGTGCAGCTGTTTATCACCAGCCAGCATGAACACAATGGACTTCGTGCC
AGCTCAGGCGCAGTACTGAAGCACCTTTTCGATCTGGCCACGGCCGAGAGGTACGC

>RXA00499-downstream
TGATTCTCGTGTTAGTACTAGC

>RXA00500-upstream
CACCAGCCAGCATGAACACAATGGACTTCGTGCCAGCTCAGGCGCAGTACTGAAGCACCT
TTTCGATCTGGCCACGGCCGAGAGGTACGCTGATTCCTC

>RXA00500
GTGTTAGTACTAGCCCTAGACACCTCAACCCCTGACCTGATCGTCGGCGTCGTGACTCC
GACACCGGAAACACCCGCGCCGAAACCATCATCGAGGACACCCGCGCACACAACGAGCAG
CTCACGCCCACCGTCCAGAAGACGCTTCTCGACGCCAACTTGAGCTTTTCAGATATCGAC
GCGATCGTCGTGGGTTGCGGCCCGGGACCGTTCACTGGACTTCGAGTAGGCATGGTGTCC
GGCGCAGCGTTTCGGTGATGCCCTGGGAATCCCTGTCTATGGAGTCTGCTCACTCGACGCG
ATCGCTCACAATATTGGTGCACGCAACATCCCGCACGCATTAGTTGCCACTGATGCGCGC
CGCCGTGAAATCTACTGGGCAACCTACCGCTCCGGCGAACGTGATCAGGGACCAGATGTC
ATCGCACAGCAAACATCCAGATCAGCGGCGCTGTAGACACCATTTTCGATTCTTGAGCAC
CTGGTGGAAAACTCCAGAAGAACTCCAGAATGTACCATGCATAGCGGCAACCTGCC
CCGCAAGCTTGGTGGCAGTGGCTGATTTTCAGTGTGGAACCAACAACCATTTGGTTCTCTT
TACCTGCGCCGCCCAGATGCCAAAGAACCAAAACCAAAACCTAAATCTGCAGCCATCCCC
GAGGTGGATCTTTCA

>RXA00500-downstream
TGAGTGAACAATTTCGAGCTACGG

>RXA00501-upstream

TGGAACCACAACCATTTGGTTCTCTTTACCTGCGCCGCCAGATGCCAAAGAACCAAAAC
CAAAACCTAAATCTGCAGCCATCCCCGAGGTGGATCTTTC

>RXA00501

ATGAGTGAACAATTCGAGCTACGGGAACTCCGCAGGGAAGACGCGGGGCGCTGCGCCGAC
CTGGAGCAAATCCTGTTCCCAGGTGATAACCCCTGGCCACGTGATGTCTTTGCCGTGGAG
TTTTCCACCCACCAATTTCTACATCGGCGCTTTCGACGAAGGATACTTGGTGGCGTAC
GCAGGTCTTGCCATGATGGGACCTGCGGATGATCCAGAGTTTGAATCCACACCATTTGGT
GTCGATCCGGAATTCCAAAGAAAAGGCTTGGGACGCGTACTCATGGATCAAATGATGCAT
GCAGCGGACAGCCACGACGGTCCAGTTTTCTTGGAAAGTCCGCACCGACAACGTACCCGCG
ATTTCCATGTACGAGGCTTTTCGGCTTTAAACCTTGGCCGTGCGCAAAACTACTACCGG
CCATCCGGAGCTGACGCTACACCATGCAACGCCACGCTTGAGCGATCGCAAAGATCAA
CAGACAGACACAGAGGGGACACCCAGC

>RXA00501-downstream

TAAACCATGATCGTTTTTGGGAAT

>RXA00502-upstream

CTACCGGCCATCCGGAGCTGACGCCTACACCATGCAACGCCCACGCTTGAGCGATCGCAA
AGATCAACAGACAGACACAGAGGGGACACCCAGCTAAACC

>RXA00502

ATGATCGTTTTTGGGAATTGAAAGCTCCTGCGATGAAACAGGCGTAGGCGTAGTCAAACCTT
GACGGCGAAGGAAACCTAGAGATCCTCGCCGACTCAGTGGCCTCCTCCATGCAAGAACAT
GCCCGCTTTGGTGGCGTTCGTGCCAGAAATCGCCTCCCGGGCGCACCTGGAATCTATGGTC
CCCGTGATGCGTGAAGCGTTGAGGCAGGCGGCGTCGACAGGCCAGATGCTGTGGCTGCA
ACCGTGGGCCCCTGGTTTGGCGGGCGCGCTGCTCGTTGGAGCCAGCGCTGCGAAGGCGTAT
GCCGCTGCGTGGGGAGTTCCGTTTTACGCGGTCAACCACCTGGGCGGACACGTGCGCGTG
GCCAATCTGGAAGGTGAACTCTTCCACACGCGGTGGCTTTGCTGGTTTCCGGCGGACAC
ACTCAATTGTTGGAAGTTCGACGCGGTGGGATTACCCATGAAGGAATTGGGATCCACCCTC
GACGATGCCGCTGGCGAAGCCTATGACAAAGTCTCAAGGCTGTTGGGATTGGGCTACCCA
GGCGGCCCATCATTGATAAATTGGCGCGCCGGGTAATCCAGAGGCCATTGCTTTCCCC
CGCGGATTGATGAAAAAGTCCGATTCTCGGCATGATTTACGCTTTTCCGGTTTGAAACC
TCCGTTGCCCGCTACGTGGAAGCTGCGGAAAGAAACGGTGAAGTTATTTCCGTGGAGGAC
GTCTGCGCATCATTCCAAGAAGCGGTGTGTGATGTGTTGACGTTTAAGGCCGTGCGTGCG
TGCCGCGATGTGCGTGCGAAGGTGCTGCTGTTGGGTGGAGGAGTGGCTGCCAACTCTCGT
CTGCGGGAGCTTGCTCAAGAACGTTGCGATAAAGCCGACATCGAACTCCGGGTTCTCGT
TTCAATTTGTGACCGGATAATGGTGTGATGATTGCAGCGTTGGCGGCTCAAAGAATCCAC
GAAGGTGCCCAAGAATCACCATTTCGGTTCGGAAGTATCCTTCTTTGTCCGTTGAGACC
CCACAGGTGTTT

>RXA00502-downstream

TAAACATTTAGTATTAGTTCCAT

>RXA00566-upstream

CTTGTTGACCACGTGATTACCTTGGCTGAAGGCCAATCAGCAACTAGGCGCACGGAAAA
CTTTAAAGGAGAGAATAAGATTATGAGCAGCGGATTCCAA

>RXA00566

ATGCCAACGTCCCGTTACGTGCTGCCTTCCTTCATTGAGCAGTCCGCATACGGCACCAAA
GAGACCAACCTTACGCAAACTCTTTGAAGAGCGCATCATCTTCTGGGCACCCAGGTC
GACGACACCTCTGCAAAACGACATCATGGCGCAGCTCCTTGTCCTCGAAGGCATGGAGCCA
GACCGCGATATCACCTGTACATCAACTACCTGGTGGATCCTTACCGCGTTGATGGCA
ATTTACGACACCATGCAGTACGTCCGCCCAGACGTTACAGACCGTCTGCCTTGGTCAGGCA
GCATCCGCAGCCGAGTTCTTCTTGCAGCCGGTGCACCAGGTAAGCGCGCTGTTCTTCCT
AACTCCCGCGTGCTGATCCACCAGCCAGCAACCCAGGGCACCCAGGGTCAGGTTTCTGAC
CTCGAGATCCAGGCAGCTGAAATCGAGCGCATGCGTCGTTTGATGGAAACCACCTTGGCT
GAGCACACCGGCAAGACCGCGGAGCAGATCCGCATCGATACCGACCGTGACAAGATCCTC
ACCGCTGAGGAAGCACTCGAGTATGGCATCGTTGACCAGGTCTTCGATTACCGCAAGCTC

AAGCGC

>RXA00566-downstream
TAGAGTTTTTTAAAGATTCGGGT

>RXA00567-upstream
CGAACAGAGGCGGTTTCATGGAAATACCGCCGGGTAGTCTGGTGACATTGAACCAAATGA
ACGTACCCAAGATTTAAGAATGTAGGAGTTGACTGTTTTTC

>RXA00567
ATGAGCGATATTCTGATGGCAGCCCAGGGTGGGCCTGGTTTTCGGAAATGACGTCTTTGAT
CGCCTCATGAGTGAGCGCATCATTTTTCTGGGAAGCCAGGTAGACGATGAGATTGCAAAC
AAGCTATGCGCTCAGATCCTGCTGCTGTCCGCTGAGGATCCAACCAGGGACATCTCCCTG
TACATTAACCTCCCCAGGTGGCTCCGTACCCGCAGGCATGGCAATTTATGACACCATGAAA
TACTCCCCATGCGACATCGCAACCTACGGCATGGGCCTGGCAGCATCCATGGGCCAGTTC
CTGCTTTCCGGTGGCACTAAGGGCAAGCGTTTCGCATTGCCACACGCACGTATCATGATG
CACCAGCCTTCCGCTGGTGTGGTGGTACCGCAGCTGATATCGCTATCCAGGCTGAGCAG
TTTCGACGCCACCAAGCGTGAAATGGCCAGCTGATCGCTGAGCACACCGGCCAGACCTTT
GAGCAGATCTCCAAGGATTCCGATCGTGACCGCTGGTTCACTGCACAGGAAGCTAAGGAT
TACGGACTTGTTGACCACGTGATTACCTTGGCTGAAGGCCCAATCAGCAAC

>RXA00567-downstream
TAGGCGCACGGAAAACCTTTAAAG

>RXA00569-upstream
CTGCCGGCTGGGTAAGAAAAGGTCTGGCGGCGTTTTATGAAGTCCCCACTGAGCGGATCA
TCCCCTACTAACCATCATTTCTGCCAGTGAGAATCACTA

>RXA00569
ATGAGATTAAAGAAGCAGCTTCTTGGCAGCCTGTTAGTTGTTCATCGTGGTTTTGTCCATC
GCCGTAGCAACCACCAAAACAACAAAAGGCTTCGTACAGGTCAGCCCACCGGTGCGCTT
AACCTCTCCGACATCCTCGACTCCGAAGAACTTGGCGAGTATCACCTCATGTCAGCCGCC
ATCATCACTGGTAACACTGTAGATTTACGCGGGCTCGGCGCAGGTCCAGACGACCCTTTT
GAAATCGCATCGATTACGAAGATCTTCACCGGTGAGCTGCTTCGACTTCAGATTGAGCGA
GGAGAGATCACAGAATCCACGGCCGTCGGAGACGTTCTTGGAGAACGTGTAGCCGACTCC
CTCATCCGGGACATAACCGTGGAAGAACTAGCCAATCACACCAGCGGACTACCCCGTCTA
GGCAATGTAGGACTTAGACCTTTTATGGCTACGTTCTTTGACAAGAATCCTTACAAAGAC
CTCTCTGCAGATCGAGTCATCTCTATCAGCACACGTCCAAATTGAATTGCGCGCGGAGAA
TTTCACTACTCAAACTCTGGTTTTGCTCTGCTTGGCCAAGTCCTTGCCCGCAATGCCGGT
TTAACGTTTGACCAGCTCTTAGACCGTGATTTACTGGCACCCTCAACCTCAATAACACC
AAGCTCATGACCCCAAGATCCCTCGCTCAAGATGCACCTCAAGGGTCTCAACACCTGGC
AAACAAGTCGAAGCGTGGGAGATGGATGGCTTTCTCCCCGCAGCTGGCCTGCGTTCCACC
GCGCGCGACATGGCAGTTTTCTGTGCTAGTACTTATTACAAAAGGCCCGCCCTTTTACC
TGGCAATCCCTTGAATCGGCCCTGAAATCGTCTGGCATAACGGAGAGTCTTTGGATAT
AGTTCCGTAATCTTTAACACCGCTACAACTACTGCCATCTTCGTTGCTGCCGACGTT
GCCACATCTGTCTTCCAATTGGTCACGAGCTTTTAATGGCAAACCTCACTAGGCAGGAA
TCAAAA

>RXA00569-downstream
TGATCGATTCCCCCGCCTCTATC

>RXA00594-upstream
CCGACTGTGACGAGTAACGCACAGTCGAATAAATAAAGATTGGCTGACATTGTTGGAGTC
TTGGGTTACGATTCCCGGGGTATCGCTAGGCTGTTGGA

>RXA00594
GTGTCCACCACGAATTCTCTGACAAAGCTCGTTGCATCTACAGTCGCCGCTGGCGTCCTT
GGTGGCTCGCACTTGTCCTTTCTGCTAGTCTTTCTGGCGTTGCGGTTGCGCGTACCAAT

GACACGATGCAGACCAACCTTTTCAGATCTGACGGATGGTCGCGGGCCGGGCGTCACGACG
ATTACTGATTCCACTGACCAGCCGATTGCTTATATTTATGCGCAGCGCGGTTTGAGGTT
GGGGGTGATCAGATTTCTACGTCGATGAAGGATGCGATCGTTTCGATTGAGGATCGCAGG
TTCTATGAGCATGATGGTGTGGATTTGCAGGGCTTTGGTCGTGCAATCCTGACGAACCTG
GCTGCGGGTGGCGTGGAGCAGGGTGCTTCGACGATTAACCAGCAGTATGTGAAGAACTTC
TTGCTGTTGGTGGAAAGCTGATGATGAGGCGGAGCAGGCTGCTGCTGTGGAAACCTCCATC
CCTCGTAAGCTCCGTGAGATGAAGATGGCGTCTGATTTGGAAAAGACGTTGTGCAAGGAT
GAGATTCTGACTCGTTATCTCAACATTGTTTCCTTTTGGTAATGGTGCTTATGGTGTTGAG
GCTGCGGCGCGGACGTATTTCCGTACGTCGGCTGCCGAGTTAACCATTCACAGTCTGCG
ATGCTCGCGGGCATTGTGCAGTCTTCGTCTTATCTCAATCCATACACCAATCACGATGCT
GTGTTTGAGCGTCGTAATACTGTTTTGGGCGCTATGGCTGATGCTGGCGCGATTTCCCCA
GACGAGGCTTCGGCTTTCCAGCAGGAACCTTTGGGTGTCCTGGAAACCCCGCAAGGCTTA
TCCAATGGTTGTATCGGCGCTGGCGATCGTGGTTTCTTCTGCGATTACGCTCTGCAATAT
CTTTCTGAGCAGGAATCACCCAAGATATGCTG

>RXA00612

GCCGCTGCAGCCATTTCAGCAGGGCGCTGGCCTAGACACCATGTTGGATGTTTCCTTCTCGA
TATGAGGTCAAGGGCATGGGCTCCGGCGGTGCCGCGAACTGTCCCGCAAATACTTACTGC
GTGGAAAACGCAGGATCCTACGCGCCTCGCATGACTCTGCAGGACGCTCTCGCGCAGTCC
CCCAACACTGCATTTCGTTGAAATGATCGAGCAGGTTGGCGTGGACACCGTTGTGGATCTT
TCAGTAAAGCTGGGCTGCGAAGCTACACCGATGAAGGTTTCCTTCGACGGCGAAAGCTCA
ATCGCGGACTACATGAAGGACAACAACCTCGGTTCTTACACTCTTGGACCTACCGCTGTT
AACCTCTTGAATTGTCCAATGTTGCTGCAACCATTCGATCCGGTGGCATGTGGTGCGAA
CCCAATCCCATCGCCAGCGTCCATGACCGTGAAGGCAACGAAGTCTACATTGACCGCCCT
GCATGTGAGCGCGCCATCGATGCCGAAACGGCTTCAGCTTTGGCCGTCCGCATGAGCAAG
GATACGGTCAGCGGAACCTGCGGCCTCTGCAGCCAGCATGTACGGATGGTCCTTGCCAACC
GCAGCGAAGACCGGTACCACCGAGTCCAACCAAGTCTCAGCATTTATGGGCTTCAACAGC
AACTTTGCCGCGAGCTCCATACATCTACAATGACGGCACCTCCACCACCCACTGTGCAGC
GGCCCCGTCCGCCAGTGCAGCAGCGGTAACCTCTTCGGCGGTAACGAACCAGCTCAAACA
TGTTTAAACATGGCAAGCAACGTCCCCGCAGCTTCGCAAGGAACACTGCCATCCAGCAGC
GATTCAATCCGCCTCGGCACTTCCGGCGAACTCCTCAACCAGGTTGTCCGCCAAAGCGAA
GCCTCCGCTCGACGCACCCCTCGAAGCCAAAGGCTACAAGGTCAACCACGCGTTTCAGTCTCC
GGCGCCGGCAGCGCGCGCGGCACCGTAGTCAGCGCAACCCCTCAGGGTGCAGTGCTTATC
GACGGTGAACCGTCATTTTGGACATCTCCGACGGCACAAGCCCTGCCCCCGCTGCCACC
AACAATGATGACAGCGACGATGGAGACACCCCTGCTCCATCAACAAACAACCGCGGAACA
ACCATGAAGACGCCATCAATGACGCCATCAACCAGTTCTTCCGC

>RXA00612-downstream
TAGAAATACCTAGTTGCTCAAAC

>RXA00615-upstream
AAATTGCCAGGATTGATCATTAATATCGGCTCATTAAGGCTCTTTTAAATGAGAGGGATT
CCCATTGAATGATCAGTTGGTGAGTTGGGTGGAAACACTC

>RXA00615
ATGACAGCATCGGTGTTTTATCCGGTGCTGTCAGTTGTGGTGCTCATCGACTGCATTTTG
CCGCTTATCCCCAGTGAGACTGTTCTTGCTTTGGCAGGGGCGTGGTCAGGAGCTCGGGGA
ACTCCAAACTTGTGGTTGGTTATTTTCAGTAGCAACGTTGGCCGCGATCATTGGTGACAAC
CTGTGTTATTTCTTTGGCACGCGGTTGATCAATATGGTGAACAGGATTCCGGGAGAAATCG
AGGCGCGGAAAAGCGCTGGAGTGGGCGCGGAAGAACCTTAATGAACGGGATGTTTCGACA
ATCATTATCGCCCGCTTTATCCGTGGGCTAGGTGGTTTGTCAACATCATTTTGGGATCT
GTGGGATATTCCCTGGTCGAGGTTTATCGTGTGGGATTCCATTGGAGCGCTAATTTGGGCA
ACCCAGGCAACTTTGTTGGGTATGTGGGCGGATGGCTTTTCCAAGAACAACCGTTGATC
GGCCTGGTTGCAGGCGCAGCTTTGGGAATCTTCTTCGGGTTCTTTTGCAGTGGCTCAAC
AAAATGTGGGAGAGGCGTCGTCTGGCGAAAGTGGCTGCAGAA

>RXA00615-downstream
TGAAATCAGGCCAGACAGTGGG

>RXA00621-upstream

AAATGAATCCGGGTTTTTCAGTTTCGGGGTGCAAATCAGAATGTCGCCAATGGCGAACAC
ACGAGCGTGCAGAAGATGTGCGTGACTAAGATCGGGGGCT

>RXA00621

ATGTCTGAACGCCTAAACGCTCCGCAAGCACCAATCCATCCCATCACCCGAACCCACCAC
GGTATTGATTTTCGTAGACAACCTATGAATGGCTGAGGGATAAAGAATCCCAAGAAACCTTG
GACTACCTGGAGGCGGAGAATGCGTTCACCAAGCAGGAGACTGAACAGCTAGCCACACTG
CGGGACAACATCTATGAAGAGATTAAGTCACGCGTTAAAGAAACCGACATGTCCATCCCA
GTGCGTGCCGGAAGCACTGGTATTACTCTCGCACTGAAGAAGGCAAGAGCTACGGCTAT
TCCTGCCGCAATTCAGTGACTGAAGGGTCGGATGCATGGACCCCTCCTGTTATCCCTGAG
GGTGAGCCAGCGCAGGGTGAAACCATCATCATGGATGCCAACGAGTTGGCAGAAGGCCAC
GAATTCTTCTCCATGGGTGCATCATCTGTACCACCTCTGGCCGCTACCTTGCGTATTCC
ACCGATGTACGGGCGAAGAGCGCTTTACGTTGCGCATCAAGGATCTAGAAACTGGCGAG
CTGCTTCCTGATACCCTGACTGGCATTCTTCTACGGTGCTACTTGGGTGGGGGAGGAGTAC
CTCTTTTACCAGCGCGTTGATGATGCGTGCGCTCCAGATACTGTGTGGCGCCACAAGGTG
GGTACCCCGGTTGAAGAAGACGTGTTGGTGTACCACGAGCCTGATGAACGTTATTCCACC
TGGGTGGGCACCACTCGTTCAGAAAAAGTTCATCCTTTTTGGTTGCGCCTCCAAGATCAC
CTC

>RXA00621-downstream

TGAAGTACGCGTGCTTCCTTTCG

>RXA00622-upstream

TTTTACCAGCGCGTTGATGATGCGTGGCGTCCAGATACTGTGTGGCGCCACAAGGTGGGT
ACCCCGGTTGAAGAAGACGTGTTGGTGTACCACGAGCCTG

>RXA00622

ATGAACGTTATTCCACCTGGGTGGGCACCACTCGTTCAGAAAAAGTTCATCCTTTTTGGT
TGCGCCTCCAAGATCACCTCTGAAGTACGCGTGCTTCCTTTTCGACCAGCCAGAGGGCACC
CCTGAGGTGCTGATTCCGCGCGCGGAGGGTGTGGAATACGACGTCGATCATGCAGTCGTA
GACGGCTCCGATATTTGGTTGGTCACACACAACGCCGAGGGCCCGAACTTTTCGGTGGGG
TGGGCTGGCGTCGACAAGCTCAATTCTTTGGACGCGCTGGCGCCACTCGTCGCGCACAAG
GATGACGTCGCGATTGAGGGTGTGATACCTACCGCGATTTCATCATCCTGGGCTACAGG
TCCGGCGCGATCGGCCAGGTGCGGATCATGAAGCTTATCGACGGAACCTTCGGCGATTTTC
CAACAGCTGGAATTTGACGAGGAAATCTACACCGTCGATCGGGCGGAAACCCAGAATGG
GACGCCCCCGTCATTGCGCTTTCTTACGGATCATTACCACCCCGCGCAGCTGTTTAAC
TACTGGATTGAATCCGGCGAACGCACGCTGCTGAAGCAGCAGGAAGTGCTCGGCGGATAC
AAGCCGTACAGCTATGTGGCTCCCGATTGTGGGTCACTGCGAAAGATGGCGCGCAGATT
CCAGTGTCCTTGGTGACCGCACCGACCTGGATGTATCCAAGCCCCAACCCACGTTGCTC
TACGGCTATGGTTTCTACGAATCATCCATTGATCCAGGCTTCTCTATCGCGCGTTTGTCA
CTGATGGATCGTGCGATGATTTTTGCGATTGCCACGTTTCGTGGCGGTGGCGAAATGGGT
CGTGGCTGGTACGACAACGGCAAAACACCACGAAGAAAAACACCTTCACCGACTTCATT
GATGTTGCCGACGCGCTCATCGAGCAGAAGATTTCTGCCCCTGAAATGCTGGTTGCAGAA
GGCGGCTCAGCTGGTGGCATGCTCATGGGCGCCATTGCCAACATGGCCGGTGACCGCTTC
AAGGCGATCGAAGCCAACGTGCCATTTCGTGATCCGCTGACCTCTATGCTCATGCCGGAA
CTGCCACTGACGTTTATCGAATGGGATGAGTGGGGCGATCCACTCCACGATAAGGACGTC
TATGAATACATGGCGTCGTATGCCCCATATGAAAACATCGAGGCAAAGAACTACCCCAAT
ATCTTGGCCGTAACATCGCTCAACGACACCCGAGTGTTGTACGTCGAACCAGCCAAATGG
GTAGCGCAGCTTCGGGCGACTGCAACCGGTGGAGAATTCTTCTGAAAACCTGAAATGGTT
GCCGGACACGGCGGTGTGTACGAGACGCTACGAAAAGTGGCGTGAGACTGCATTTGAGTAC
GGCTGGTTGATCAACCAAGCAACCGGTGTGACCGAA

>RXA00622-downstream

TAAAACTTGTTTCGACTAGCGAAC

>RXA00636-upstream

TCATGGGATTCAGCAAGGCGGCCACCCGAACCGTCTTTGGTGGAGGAGTAGGAGCGATGA

TCGATCTGGCCCGTTTGAACATAAGGAATATTCCTACTCC

>RXA00636

ATGATGATTGATACACCTGCTGTTCTCATTGACCGCGAGCGCTTAAGTGCCAAACATTTCC
AGGATGGCAGCTCACGCCGGTGCCCATGAGATTGCCCTGCGTCCGCATGTGAAAACGCAC
AAAATCATTGAAATTGCGCAGATGCAGGTCGACGCCGGTGCCCGAGGGATCACCTGCGCA
ACCATTTGGCGAGGCGGAAATTTTGGCCGGCGAGGTTTTACGGACATCTTTATTGCATAT
CCGCTGTATCTAACCGATCATGCAGTGCAACGCCCTGAACGCGATCCCCGGAGAAATTTCC
ATTGGCGTGGATTTCGGTAGAGATGGCACAGGCGACGGCGGGTTTGGCGGAAGATATCAAG
GCTCTGATTGAAGTGGATTTCGGGACATCGTAGAAGTGGAGTCACGGCGACTGCTTCAGAA
TTGAGTCAGATCCGCGAGGCGCTGGGCAGCAGGTATGCAGGAGTGTCTACTTTTCCTGGG
CATTCTTATGGCCCCGGGAAATGGTGAGCAGGCAGCAGCTGATGAGCTTCAGGCTCTAAAC
AACAGCGTCCAGCGACTTGCTGGCGGCCTGACTTCTGGCGGTTCCCTCGCCGTCTGCGCAG
TTTACAGACGCAATCGATGAGATGCGACCAGGCGTGTATGTGTTTAACGATTCCCAGCAG
ATCACCTCGGGAGCATGCACTGAGAAGCAGGTGGCAATGACGGTGCTGTCTACTGTGGTC
AGCCGAAATGTGTGATCGTCGGATCATTTTGGATGCGGGATCCAAATCCTCAGCACT
GATAAACAGCATGGATTGATGGCAATGGTTTTGTTCTGGGGAATCCTGAAGCCCCGAATC
TCTGCTTTGTGCGAGCATCACGCAACCATTTTCTGGCCAGATAAAGTGCTACTTCCAGTA
ATCGGGGAGCAGCTCAACATCGTGCCCAACCATGCCTGCAACGTGATTAATTTGGTGGAT
GAGGTCTACGTTTCGGGAAGCCGATGGCACTTTCCGTACCTGGAAGGTAGTTGCCCCGGGC
AGAAACAAT

>RXA00636-downstream

TAGGGAAACCTCTTGACCTTCAC

>RXA00639-upstream

AGTGTGTATTTCGAGTTTCAGCCGATCACAAAGATTTTTCCGCTAGGCAGTGATCCGACTC
GCACCCCTACTTCACCCCCAAAGTCTCTAGGAGTATGAC

>RXA00639

ATGACTTCAGCTGAACAGATCGTTGATCCAACAGCCACGATTTCGGGCAACAAGGCAACT
GACAAGTTCAAGGCAAACCGCGTTTCCCTCCGATACCTCCAAGGAACGCGCAAACGCGATC
TACGTAGATCTGCTCGCGGCGATCGCCAGGTTGCTCACAAGCACGAAGTCACCTACGAA
GAGTACGCAAGTGCTCAAGCAGTGGATGATCGACGTTGGAGAATACGGCGAGTGGCCACTG
TGGTTGGACGTTTTTCGTTGAGCATGAGATCGAAGAGATCAACTACAACCGCCACGACTAC
ACCGGAACCAAGGGTTCCATCGAAGGCCCTTATTACGTAGAGAACTCTCCGAAGCTCCCT
TGGGATGCTGAAATGCCAATGCGTGACAAGGACCGCGCATGCACCCCACTGATCTTCGAG
GGGCAGGTTACTGACCTCGACGGCAACGGTCTTGATGGAGCAGAAGTTGAGCTCTGGCAC
GCAGATGAGGACGGATACTACTCCAGTTTCGCGCCTGGAATCCCAGAGTGGAACCTGCGT
GGCACCATCGTTACCGATGAGGAAGGCCGCTACAAGATCAAGACCCTGCAGCCTGCGCCT
TACCAGATCCCTCATGATGGCCCAACCGGTTGGTTCATTGAGTCTTACGGTGGGCACCCA

>RXA00640-upstream

TGCGGAATTGCTCGCAAATGTACACACCGCTTCAAAGCAAAAACGAAAACGACATCGCG
GTGGCAATACCAACTTCTTTTCACTCTCTTGAGGTTTAC

>RXA00640

ATGTCCACACCAGTTTCAAATTTGGCAAGCGTTTCAGAAACTCTGGACCATGCGCTTGAG
GACCGCCCTGAAGAGGGAATCGTCCGCGTCAACCGCAACATCTTCACTGACCCTGAGATC
TTCGAGCTGGAGATGCGCCACATCTTCAAGGCATCTGGATGGACATGGCTCACGAGTCC
CAGATCCCTAACGGTGGAGACTACTTCACCACCTACATTGGCTGCCAGCGGATCATGATC
ACCCGTTTC

>RXA00640-downstream

NAGGNNGGCACACTNAANGGCCT

>RXA00641-upstream

CCACGGTTGANNANTCNGCAAGGNCGGNNCACTGCTCAAGGTCAAGGATGAAAAAGAAGG

CNCCTACCCAGAGTATTTCCGCACCGANGGNTCCCANGAT

>RXA00641

GTGCGTCGCGTTCTTAAGTTAGAGTCCTACCGTGGCTTCCTCTTCGGCTCCCTCAACGAT
GATGTCGTTTTCTTTGGAAGAGCACCTCGGCGACACCCGTACCGTCATTGACATGCTGGTT
GACCAATCCCCAGAAGGCCTCGAAGTACTGCGCGGATCCTCCACCTACACCTACGACGGC
AACTGGAAGCTCCAGACCGAAAAACGGTGCAGACGGCTACCACGTTTCCTCCACCCACTGG
AACTACGCTGCAACCACCTCCCGCCGTGGCACTGGTGAATCCGCGAACGAAACCAAGGCA
ATGGACGCTGGTACCTGGGGCAAGCAGGGTGGCGGATACTTCTCCTACCCCTACGGCCAC
ATGCTGCTGTGGATGTGGTGGGGCAACCCAGAAGACCGCCCACTGTTTCGAGCGCCGCGAC
GAGTTCAAGAAGGAATTCGGCGAAGAAAAGGGCGAGTTTCATGGTTGGTGCTTCCCGCAAT
CTGTGCCTCTACCCCAATGTTTACCTGATGGATCAGTTCTCCTCACAGATCCGCCACATC
CGCCCAATCTCAGTTGATCAGACCGAAGTCACCATCTACTGCATCGCACCTAAGGGCGAG
TCCGCGGAAGCAGTGCAAACCGCATCCGCCAGTACGAAGACTTCTTCAACGCAACGGGC
ATGGCAACCCAGATGACCTGGAGGAATTCGGCTCCTGCCAGAAGACCTACCAGGCATCT
GCCTTCCCATGGAATGACATGACCCGCGGTTTGGGCCACCAGGTACAGGGACCAAACGAG
GTTGCCAAGGGCCTAGGCATGAACGAAGTTCTTTCCTCCGGAGCACGCACCGAAGATGAA
GGCCTCTACCCAATCCAGCACGGCTTCTGGCATGAATCATGCAGGAGGCTGTGAATAAG
CAGAGCATCAAGGAAAAGGAATTGGCTGACGATACCGCTTCTTCCCTGCCACCGTAGCT
GCAGCCAAAATCCGTGAGGAAGCAAAGGCAGCCGCGAAGTCCGACGCTGGAGAGCCTCGC
CGCCGTCGTGCGACCCGCGGT

>RXA00641-downstream

TAGTCGTGAAAAGCAAAAAATC

>RXA00642-upstream

AAAGGCAGCCGCGAAGTCCGACGCTGGAGAGCCTCGCCGCCGTGTCGCGACCCGCGGT
GTCGTGAAAAGCAAAAAATCTTTTAAGGAGAACACCTAA

>RXA00642

ATGTCTGAAATCACCCGCTCTGAGATCGAAGCTTTCCTCTACTACGAGGCTCGCCTGCTC
GATGACCGTAAATTTGAAGAATGGCTCGAATGCTACCGCGAGGACGCCGAGTTTGGATG
CCAGCCTGGGACGACAACGGTGAAGTGAAGATCCACAGTCTGAAATTTCCCTCATC
TACTACCCAAACCGTGGTGGACTTGAGGACCGCGTCTTCCGCATCCGCACCGAACGCTCC
TCTGCAACTTCCCTACCTGAACCACGCACCGGCCACAGCACCACCAACGTGGAAATCCTG
GAGCGCCGCGACGGCGAAGTAGATATCCGCTTCAACTGGATCACCTTCTACTACCGTTAC
AACACCACCGACACCTACTTCGGCACCCAGTTTATCACCTTGATGTCAGTGGTGAAACC
CCGAAGATCGTCAAGAAGAAGGTCGTTTTGAAGAACGACTACATCCACCACATCGTCGAT
ATTTACCACGTC

>RXA00642-downstream

TAGGAGGCACTCACATGACTCAC

>RXA00643-upstream

TCAGTGGTGAAACCCCGAAGATCGTCAAGAAGAAGGTCGTTTTGAAGAACGACTACATCC
ACCACATCGTCGATATTTACCACGTCTAGGAGGCACTCAC

>RXA00643

ATGACTACCAAGTTGCACTTGCCCTTTGAAGACGGCATCACCCGATTTCATCGACTGCGAA
GATGACCAAATGTTGCAGATGCCGCCTACCAGGCACGCATCAACATTCCTTTGACTGC
CGCGACGGCGCCTGCGGAACCTGCAAAGCGTTCTGCGAATCCGGCGACTTTGACGAAGGC
GACTACATCGACGACGCCCTGTCCGAAGATGAAGCAGCCGACGGCTACTGCCTGCCCTGC
CAGATGACCCCAAAGACCGACCTCATCTTGACAGATCGCCACCACCTCCGTGCTGGCAAAG
ACCGGCGCATCCACTTTCGATGGCGAGTTGAAGGAGATCAATCACTTCTCTGATTCCACC
ATCGGCATTGAGATCGAACTGGAAAACCGCCAAGATTTGGCGTTTCTCCCTGGTCAATAC
ATGAACATCCAGGTTCCAGGCAGCGACCAGACTCGTTCCTACTCTTTCTCCTGCGCTCAA
GATTCGGCAACGTGCAGTTCTTGATCAAGGTAACCCAGGTGGACTCATGACCACCTAT
CTCACCGATCACGCGAAGGTCGGCGACAAGCTCACCTTGACCGGCCGATGGGTTCTTC
TTCCTGCGTGAACCTGTCCGCCGATCCTGCTGCTCGCCGGCGGAAGTGGACTTGCACCG

ATCTTGGCTATTTTGGAAAAGCTTTCCCGCGATGAGCTTCTCGACGTCCCAATCCGCCTG
GTTTACGGCGCGAACTTCACCCACGATCTGGTGGAATTGGATCGACTTGATGCCTTCAAG
GACAAGTTCTGACTTCGATTACATCACCGTGCTTTCCGACAAGGACACCGAGCATCCACGC
AAGGGCTACGTCCCAGCACACCTGACCGGCGAATATGAGCCAGATGAGGACACTGATGTG
TACCTCTGCGGCCCTCCTCCAATGGTCGAGGCCGTGCGCCAATTCTTGGGCACCTGGAG
CATCCTCCGCTGGACTTTTATTACGAGAAGTTCACTTCCGCCGCTGCCCTGCTGCTGGT
AAGCCAGAGATCACCGTGAGACCAGCGAAGTTGCAGAGGATTTCAACCTGGTCGAGGTG
TCCACTCCAGGCATGTCTTCCGGCGAGGTGCACTCTTCTGCAACCCAGCTGCAGGCCCGC
ATGGCTCTGGAGCTCGGCGCGCTGGAGCTTGCATCAACAACTCGGCGAGCGCGACATC
GAGCGATTCCGCAACTTGGCCGACATCGCGAACTCCTTCATCGACGGCGATAAGTTTATC
GACGCGGTGAAGTTCACCGAGGCCAACGCCGATTTCCACGAGTTCCTCTCCGCCGCGCA
AACAACGAGGCGCTGCTTGCAGGCTACCGAACCTCCAGGTTGTTCAAGAAATGAACGCA
ACCCTTCCAGGCGCCGAGTGGATTGATCCGGCAATTGCCACCGAGCACTTGGCGCTTGTG
GACGCCGTCTCCAGAAATGATCTCGAGACCGCGAGAACAAATCATTCGTGAACACGCGGAG
CACGGCATTGACACTATGGTTAAGGCCCTCGAGAAA

>RXA00643-downstream
TGAGCGCGCCAGTAGGACAAGGC

>RXA00644-upstream
TTGTTCGACGCCGTCTCCAGAAATGATCTCGAGACCGCGAGAACAAATCATTCGTGAACACG
CGGAGCACGGCATTGACACTATGGTTAAGGCCCTCGAGAA

>RXA00644
ATGAGCGCGCCAGTAGGACAAGGCATCGAAGGTGCCCCACTCACGTCACCCCGGAACGC
TTCTTTGGCCAGGGTGTTGTGGTTACCGGAGCGGCTCAAGGCATCGGCATGGCAGTGGCA
CACCGCATCGCATATGAGGATGGCAACCTAGTGTGGTGACCGTTCCTCGCTGGTGAT
GAAGTTGCCGAAGAGCTGCGTAAAGCAGGCGCCGGAACGGTGGATTCTTTCATCGCCGAT
CTGGAACCTTTGAAGGCGCAACTGATGCTTTGGAATTTGCCGGGCAGAAAGTTGAAGAAC
CTTGATGTGGTGATCAACAACGTTGGTGGCACCATCTGGGCGAAGCCTTATCAGGAATAC
TCTGAGGAAGAGATCCGCAAGGAAATCAACCGAAGCCTCTTCCCCACCTTGTGGATGTG
CGGGCCGCGTTGCCAATTCTGATCGGAAATGGTGGTGGAAACGATCGTTAATGTGTCTCC
ATCGCACCGGTGGTATCAACCGTGTCTTATGCTGCAGCAAGGGTGGCGTCAACGGC
ATTGTTTCTGCCATGGCCCGCGAAGCTGCACCGCATAATGTGCGCGTGGTGGCAACGGCT
CCCGGTGGCACGCTCGCTCCGGAACGTGCCGTCAAACGAGGCCCTGGGCCAGAGGGCGAA
TTGGAAGAAAAGTGGTATCAGCAAATCGTTGATCAAACCATTTGATCCAGTTTGATGAAG
CGCTACGGCACCTAGAGGAGCAGGTGCGCGCGATCTGTTTCTCGCTTCTGAGGAAGCT
TCCTACATCACTGGATCAGTCATGCCAGTCGGTGGAGGCGACCAGGGA

>RXA00644-downstream
TAACCTTGGTCAATCTTAGGGA

>RXA00650-upstream
AAGGCTAGACTAAAGTACGATTCTGCTCATCGATACTCTTGAAGGCGCATTTTCATT
CGAAACGAAGTGCGCCATTGGGAAGGACCTAGTTCAAACA

>RXA00650
ATGATTGCGGTGCTGCTTGCTGATGACCACGAAATCGTGAGGCTCGGACTCCGAGCTGTG
CTGGAAGCGCCGAGGACATTGAAGTGGTGGGCGAAGTCTCCACCGCCGAAGGTGCGGTG
CAGGCAGCCCCAAGAGGCGGAATCGACGTCTTGTGAGGACCTCCGATTTCGGCCCCGGC
GTCCAAGGAACCCAGGTTTCCACAGGCGCAGACGCCACCGCAGCCATCAAGCGAAACATC
GATAACCCGCCAAAAGTCTTGGTCTGACCAACTACGACACCGACACAGACATCCTCGGC
GCAATCGAAGCCGGCGCACTGGGCTACCTGCTCAAAGACGCCCCACCGAGCGAACTCCTG
GCAGCAGTACGATCCGCAGCAGAAGGTGACTCCACACTGTCAACCATGGTTGCGAACCGC
CTGATGACTCGCGTGCGCACCCCCAAAACCTCACTACCCCCACGTGAAGTGGAAAGTTCTC
AAGCTGGTTGCCGGTGGATCCTCCAACCGCGACATTGGCCGTATCCTCTTCTCAGAA
GCCACGGTGAAATCCCACCTCGTGCACATCTACGACAAGCTCGGCGTGCGGTACAGTACC
TCCGCTGTGCGAGCCGCACGTGAGCAGGGGCTGCTG

>RXA00650-downstream
TAGCGGGGGTTGCTGCAAGGCTT

>RXA00658-upstream
CATTGACACCCACAGGTTTACCAGCATCACGGAAAGTTTGGATGGATTTTACTCCGGCC
ACAACGTCTGGCTGGAAGCTCAGCCACGTGCTTTCTGGTC

>RXA00658
GTGCGCCACGACGAGCACTACCCAGCTGCGGCAAACCTCATTGCTTTTCGATAAGGGATGG
TCCACCCTCATCGCCCCCTCAGCTGGAAGATCCAGAGGCGGAGGAGTTCACCGCCGGATTTC
CTCACCGAATACCAGGACAACTCTGATCACTGCGGGCATGGAGCACCAGGCGCTCGCGAGC
GGCTTCCCGGTGGGGCGTTCGCTTCAAGTCCGATATTGCTTTACGACGCTGCGATGCGGTG
ACCACCCACATCGGCCACGAACACTCCGCCGATGGTCACTGGAGGATCTACGTATTTCGCT
GGCCAAGCCACCCCAAA

>RXA00659-upstream
GCTGGATACGAAAAGTGAAGGAAAATAACGCATCATGACTATTAATGTTTTCGAACTACT
TGTCAAAGTCCACGGGTCTACTGATTGGTGATTCTTG

>RXA00659
GTGGAAGCATCCGACGGCGGTACTTTTCGATGTGGAAAACCCAGCGACGGGTGAAACAATC
GCAACGCTCGCGTCTGCTACTTCCGAGGATGCACTGGCTGCTCTTGATGCTGCATGCGCT
GTTTACGGCCGAGTGGGCTAGGATGCCAGCGCGCGAGCGTTCTAATATTTTACGCCGCGGT
TTTGAGCTCGTAGCAGAACGTGCAGAAGAGTTTCGCCACCCTCATGACCTTGGAAATGGGC
AAGCCTTTGGCTGAAGCTCGCGGCGAAGTCACCTACGGCAACGAATTCCTGCGCTGGTTC
TCTGAGGAAGCAGTTTCGTCTGTATGGCCGTTACGGAACACACCAGAAGGCAACTTGCGG
ATGCTGACCGCCCTCAAGCCAGTTGGCCCGTGCCTCCTGATCACCCCATGGAACCTTCCCA
CTAGCAATGGCTACCCGCAAGGTCGCACCTGCGATCGCTGCAGGTTGTGTGATGGTGCTC
AAGCCAGCTCGACTTACCCCGCTGACCTCCAGTATTTTGCTCAGACCATGCTTGATGCC
GGTCTTCCAGCAGGTGTCCTCAATGTGGTCTCCGGTGCTTCCGCTCTGCGATTTCCAAC
CCGATTATGGAAGACGATCGC

>RXA00663
CTTGGTGACAATGACACCCGCATCCTTGCACTGGCCAAGAATCTGCAGGAAGAGGGCCAC
AATGTGGTTCTGGTGTCGAAGGACCTGCCGATGCGGATTAAGGCGTCGGCAAGCGGAATC
GCCGCACAGGAATACCGCGCTGCCCTGGCGCGCGACCGTGTTACACCGGCATGACCCAC
GCCAATATCACCGATGACCAGCTCAGCGAGCTCTACGACACCGGCGAGGTGCGCATTGAG
GAGCTCGAAAAGCTGCCCCGTCAACCACGGCTTACCCTCAAATCCAACAGCGGTTTCGGCG
CTTGGTTCGTATGAATTCGACAAGATCATCGAGCTTGTCCCCGGCGACCAAGCAGGATTC
GGTATCAGCGGGCGTAGCGCTGAGCAGCGGTTGCCATTGATTGTCTTAACGACGACGCC
GTCGGCATCGTATCCATCGGCGGCCCGCGGGTACAGGTAAAAGCGCACTCGCACTGTGT
GCCGGCCTGGAAGCTGTGATGGAGCGTCGCATTACGCGCAAGATTATCGTGTTCGCCCCA
CTCTTTGCCGTTGGCGGACAGGAACCTGGCTACCTGCCTGGCGACCAAGAAGAAAAAATG
GGGCCTTGGGCGCAAGCGGTTTTTGACACCCTAAGCTCCATGGTCAGCCAAAACATCATC
GATGAAGCCCTCTCCCGCGGCCTCATCGAAGTTCTCCCACTTACTCACATCCGCGGACGC
TCACTCCACGATGCTTTTCGTATCGTCGACGAGGCCAATCCCTAGAACGCAACGTGTTG
CTCACCATGCTGTCTCGCATCGGCCAGAATTCGAGTAGTTCTCACCCATGACGTAGCG
CAGCGCGACAACCTGCGCGTTGGTCGCTACGACGGCATCGTCTCTGTGGTGGAAGCACTC
AAGGATCACGAACGTGTTGGCCACATCACGTTGCAGCGTTCCGAACGCTCCCGAATCGCT
GAGTTGGTCACCCAAGTTTTGGATGCGCCGTCTCTG

>RXA00663-downstream
TAGTCGCGCAGTCTGTGGCGATT

>RXA00675
TGCGGCGCAACCTTTGATGGTTGGGTCGGCGATTCCGCGTGAGCTTCGGCATCGGCGAG
CTGGACGAGGACGTCCAGGGTCTCAACTTGGCTACCGAGTGGGTCTCATGGAAGGCATG

AAGGCCATGGTTCCAGGCAACCGTTTGACCGATGTCTCCACGCTCTCGAGGTCGCAACC
CGCAAGGCTGAGTCCAAGTTCGGCGTCGCGCTCGGCATCGTCGATGGCTACGGCGGACAC
GGCATTGGCCGCCACATGCACGAGGAGCCATACTTGGCTAATGAGGGCAAGGCCGGCAAG
GGCCCTGTGATTCAGGAGGGCTCCGTGCTCGCCATTGAGCCTATGCTCACCCCTCGGCACC
GAAGATTCCGCAGTGCTGGAAGATGATTGGACTGTCGTGACTCTCGACGGTTCATGGGCA
TCACACTGGGAGCACACCGTTGCGAGCCACCAAGGGCGGCCCGCGCATCCTCACGCCGCGT
TAT

>RXA00675-downstream
TAAAATGATGCTTTTCGACGCAT

>RXA00689-upstream
ACTCCGACCAGTGACTTTAGAGCTAGGCGGAAAATCTTCCGCGATTATCCTTCCTGATGC
AGACATGTCAGTACTCTCGACGCGGTTGATTTCGATCCTGT

>RXA00689
ATGCGCAACACTGGACAAACCTGCTACATCAGTACCCGGATTATTGCCCCCTAGCTCACGC
TATGCGGAAGTCGTACAAACAGTGGCAAGCACTATCGCTGCAGGTAGACAAGGTGACCCC
TATGATGAAGAAACGGTTTTTTGGGCCAGTTGCCAGCGCCTCTCAGTACTCAACCGTCATG
TCTTACATTGACTCCGCACGAGAGGAAGGTGCACGAGTGGTTGCAGGTGGAACCCGGTCA
ATCAGCCTTTCTGAAGGTTTAGAATCAGGCGAGTTTATCCAACCAACCGTGTTTGCCGAT
GTCACCCCCGACATGCGGATATCACGCGAAGAAATCTTCCGCCCTGTTATTTCCATCCTA
AAGTACGACGATACAAACGGTGTTTCCGAAGCAATCGCACTAGCCAACAACACGAAATTC
GGTCTCGGTGGCTTGGTATTTGGTGCGGATGAGGAACAAGCACTAGAAGTCGCCCCGTCAA
GTGGATTCTGGTTCCGTAGGCATCAACTTCTTCGGTTCCAACCATTCGCCCCATTTGGA
GGACGCCACGAATCCGGTATGGGAGTGGAATACGGCATCGAAGGCCTCAGTGCTTACCTG
ACATACAAGAGTATTCACCGAACCATT

>RXA00689-downstream
TAGTTACTGAAAGTTCTCAGCTA

>RXA00715-upstream
GTGGTGTTAAGCACTAAGATGGCAGGTTATGACTTCTCTTAAAGTAACTTCGTCCGCAGA
TGCAACCAATAACAATGATGCCCATTTTCTTGAAGGTCCA

>RXA00715
GTGGTAACCGTTGACTGGTTGTACACAACCTTGACCGGGATGATGTCATCGTGTTGTGT
GCCACAATGGAGGATGATGAAATTGCACGTCAAGCGGGAATTCCGGGGGCATTTCTCGCT
GACTTGGAAGGAGATTTCTCAGATCCACATTCCGAGCTTCCACACACCGCGCCACCAAAT
TTGGTGGGTTTGCTAGAAAGCTACGGCATTAGCACCGATTCCACGGTGGTTGTTTATGAT
CTGCACGGCCTCATGGTTGCACCGCGGGTGTGGTGGCTTCTCCGTGTTGCTGGATTAAGC
AGCATTGGCGTGCTTGATGGCGGATTGCCAGCCTGGGTGATGCTGGCCTTCCAACGGAA
CCGCTGTGCTACCTACAAGTGGTGGAAGGATCAGCGCAGAACCACAGCCAGATTTACTC
GTTGGTGCCTCCGGCGTTGAACGGGCGATCGCGCGCTCAAGCAAGGCAGTGATTGATGCT
CGTAATGCGAGCCGATTCTGCTGGCGTTGAAGAAGAGCCCCGTCCAGGCCCTTCGAAAAGGG
TCGATCCCTGGAAGCGTCAACATTCCCTTCACTGACATTTCTGATGAGCATGGTTTTGTC
CGGCCAGCAGAAGAACTGAAGGAATTGATCTTCAGCCGCACAAATGGAGCGCAGTCGTTG
GTCTTTAGCTGTGGCTCCGGAGTCACGGCATGTGTTGATGCCTACGCTGCAGTTATCGCA
GGTTATGACGACGTTGTAGTGTATGAAGGCTCTTGGGCGGAGTGGGGCAACCCGGCAAAC
CAAAAGCCGATTGCT

>RXA00715-downstream
TAACGCCCCGCTATGATAACCACT

>RXA00744-upstream
TCTGAGTCGGTAGAAGTATTACCCAGTGACTTAAGTTTCTTAGATTTTTTTGAGCAACAG
CGACCAGCCACGTTAGTGTGGTCGAGTAGAGGATAGCTAC

>RXA00744

ATGGGGAAGTGGGCAGAGATTACTGATGAAATTTCTAAGATTTACCAAGATAATCAGTAC
 AAGATTAGACAAATAAATGATGTTGACGCAGTAAGCGATAAACGTAGAGAAGCGCTACAA
 GCACTGTTTGAACATACTGGTCGAAATGTAATCGTCTATTATTCAGCGTGGTTAGAAAAT
 GGTTCGACGATTTTCCGGGCAATCTACGGATTTTTCGGTAAATGATACTGATAAAAAACAGT
 TTTATGACTGCGCTCCATAAGTTGGATCAGAGTAAAGGTCTCGATCTTATCCTCCACACT
 CCGGGTGGAGATGTTGCTGCGACAGAGTCGTTAGTAGATTACATTCACGCACTCTTGGT
 CAAGATTTTCAGAGTCATTGTCCCCAACCTCGCAATGTCAGCAGGAACAATGATCGCACTT
 TCGTCCAAAGAGATTGTTATGGGGAAGCATTCTAGTCTTGGCCCCATTGATCCTCAGTTT
 AACGGCCTACCGGCACACGGGTATTGGAAGAATTTGAGCAAGCGAAGAAAGAGGTCTCT
 GAGAATCCGCAGACTGCTCATATATGGCAGGTGATCTTGAATAAATAACAACCCACGATG
 TTGGGTGAAGCTAAAAAGCTATTGAGTGGTCCAACTCGATGGTTAAGCAGTGGCTTGAA
 AAGGGTATGTTTTTAGACGAGCCTGACAAAGAAGAAAAAGCCACTCGCGCTATCAAAGAG
 CTCGCTGATCATTCCGTTACTCTTGCGCATAATCGACACATTTTCGGTCAGTAAAGCACTT
 GAGCTGGGATTGAATATCAAAGAACTTGAGAGCGATCCAAAGCTTCAAGATTTAGTTCTT
 ACTCTTACCACCTGTCCGTTATTGCTGCGCAACGAGGACCATTAAATTAAGTTTGTCGT
 AATCATGACAACCGTGGCACTTTTCTGCAGGGGCATGAAAAC

>RXA00744-downstream
 TAATTAAGTGATGCAATAGTCTA

>RXA00756-upstream
 ATTCGCTAAACCTGCGCAGGATGAGACTGCCCTCGCAGAAAGCACATTCGACGAAGCCAC
 CGCGTAAACAGTACGTGGTGGAAGCTTGAGAGGAAGACAA

>RXA00756
 GTGAATATTGATGTCCAGGCTTTAAAGCCATCGAGTCTGAAAAAGGAATCCCAGTTCCA
 GACTTGCTGCGCACCATCGCCTCTGCACTTTTGCATTCTGTACATGGATAATCGCGAAACT
 GTTGGCTCTGCGAACCTGAAACCACGCGTGGACATCGATTCCACAACCTGGCACGGTCAAC
 GTCATCGTCTCAGAATTCGACGAAAACGGAGAGCTCGCTTCCGAATACGACGACACCCCA
 TCCAACCTTCGGACGAGTCAGCGCCCCGCGCTGTTTCGCGACGCGATCGTTAAGTCCCTGCGC
 GAAGCAGAAGCAAGCCGAGCATTTCGATGCGTACGCAGATTATGAAGGCACCGTTGTGTCC
 GGCATCGTTCAAGCAGATGCCCCGCGCAGCTGAACGCGGAATCATCATCGTGCAGCTGGGT
 ACCGAAGCGGACAACCAAGACGGCGTTTTGCTCCCAGCCGAGCAGATCCCTGGCGAAAAG
 CTCGAAGCAGCGGACCGCTCAAGTGCTTCGTCTGTTGGCGTGGGCAAGGGCAACACTGAC
 ATCCAGATCAACCTGTCTCGTACTCACCCTGAGCTGGTGCGCCGACTGTTTGAACCTGGAA
 ATCCCAGAAGTTGCTGACGGATCCGTGGAAATTGTTGCTATCTCCCGCAAGCCGGACAC
 CGCTCCAAGGTTGCTGTTCAAGCCAAGGTGAAGAACCTCAACGCCAAGGGCGCTTGCAAT
 GGCCACGTTGGACAGCGTGTGTCCAACATCATGCGTGAACCTCGGTGGAGAAAAAATCGAC
 ATCATCGATTACTCCGAAGATCCAGCAACCTTCGTTGGAAATGCACTGGCACCATCCAAG
 GTTGTCAACGTAGAGGTCACCGATCTTGAAGCTCAAACCGCGCGCGTAACCTGTCCCTGAC
 TACCAGCTTTCACTAGCAATCGGTAAAGAAGGTCAAACGCCCCGCTTGCTGCCCCGCTG
 ACCGGCTGGAAGATCGACATCCACTCTGACATCGAT

>RXA00756-downstream
 TAAAAGTCGCTTGAACCGGCATG

>RXA00772-upstream
 GTCGCATTCTGCTTGCTGAAGTGGCACACCTATGTGTTCTGCTTGGGTATAGCAGTGCAG
 GAAAAATTTGAAAAAGTCCGATTACCTGAGGAGGTATTCA

>RXA00772
 ATGTCTGATCGCATTGCTTTCAGAAAAGCTGCGCTCCAAGCTCATGTCCGCCGACGAGGCG
 GCACAGTTTGTAAACCACGGTGACAAGGTTGGTTTTCTCCGGCTTACCGGCGCTGGCTAC
 CCAAAGGCACTGCCTACGGCAATCGCTAACCGGGCTAAAGAAGCACACGGTGCAGGCAAC
 GACTACGCAATCGACCTGTTCACTGGCGCATCGACCGCCCTGACTGCGATGGCGTACTT
 GCAGAAGCTGACGCTATCCGCTGGCGCATGCCATACGCATCTGATCCAATCATGCGTAAC
 AAGATCAACTCCGGCTCCATGGGATACTCCGATATCCACCTGTCCCACTCCGGCCAGCAG
 GTTGAAGAGGGCTTCTTCGGCCAGCTCAACGTAGCTGTCATTGAAATCACCCGCATCACT
 GAAGAGGGCTACATCATCCCTTCTTCTCCGTGGGTAAACAACGTTGAGTGGCTCAACGCT

GCAGAGAAGGTCATCCTCGAGGTTAACTCTTGGCAGTCTGAAGACCTCGAAGGTATGCAC
 GACATCTGGTCTGTTTCTGCCCTGCCAAACCGCATTGCCGTGCCAATCAACAAGCCAGGC
 GACCGCATCGGTAAGACCTACATCGAGTTCGACACCGACAAGGTTGTTGCTGTTGTTGAG
 ACCAACACCGCAGACCGCAACGCACCATTCAAGCCTGTGACGACATCTCTAAGAAGATC
 GCTGGCAACTTCCTCGACTTCCTGGAAAGCGAAGTTGCTGCAGGTCGCCTGTCTACGCG
 GGCTACATCATGCAGTCCGGCGTGGGCAACGTGCCTAACGCGGTGATGGCAGGCCTGCTG
 GAATCCAAGTTTGAACAACATCCAGGCCTACACCGAAGTTATCCAGGACGGCATGGTGGAC
 CTCATCGACGCCGGCAAGATGACCGTTGCATCCGCAACTTCCTTCTCCCTGTCTCCTGAG
 TACGCAGAGAAGATGAACAACGAGGCTAAGCGTTACCGCGAGTCCATTATCCTGCGCCCCA
 CAGCAGATCTCTAACCACCCAGAGGTCATCCGCCGCGTTGGCCTGATCGCCACCAACGGT
 CTCATCGAGGCTGACATTTACGGCAACGTCAACTCCACCAACGTTTCTGGCTCCCGCGTC
 ATGAACGGCATCGGCGGCTCCGGCGACTTCACCCGTAACGGCTACATCTCCAGCTTCATC
 ACCCCTTCAGAGGCAAAGGGCGGCGCAATCTCTGCGATCGTTTCCTTTCGCATCCCACATC
 GACCACACCGAGCACGATGTCATGGTTGTTATCTCTGAGTACGGTTACGCAGACCTTCGT
 GGTCTGGCTCCACGTGAGCGCGTTGCCAAGATGATCGGCCTGGCTCACCTGATTACCGC
 CCACTGCTCGAGGAGTACTACGCTCGCGCAACCTCCGGTGACAACAAGTACATGCAGACC
 CCTCATGATCTTGCAACCGCGTTTGATTTCACATCAACCTGGCTAAGAACGGCTCCATG
 AAGGCA

>RXA00772-downstream
 TAAGTTTTTCTTGGTTTAGAAA

>RXA00773-upstream
 GCCCCCAAAAAGTGAAAGCACACCACCTTCTAGTTGCGCCCTGCTCACAATTTGCTTCA
 AATATTTTGCCCAACCTGATTCACGGGGGACAATAGTTAG

>RXA00773
 GTGACTTTAAAAATCGGCCCCCTTTGACCTTGCCCTCCCCTGTGGTTCTAGCCCCCATGGCT
 GGTGTAACCAACGTTGCTTTCGCGACGCTGTGCCGTGAACAGGAAATGCAACGCACGGGA
 ACAATCTCGGGGCTGTACGTCTGTGAAATGGTGACTGCGCGTGCTCTTGTTGAGCGCAAT
 GAGAAAACCATGCACATGACCACCTTCGCGCCGGATGAAAATCCCCGAAGCTTGCAGCTG
 TACACGGTTGACCCGAAGTACACCTACGAAGCGGCGAAGATGATCGTTGATGAAAACCTG
 GCGGATCATATTGATATGAACTTTGGCTGCCCGGTTCCAAAGGTCACGCGCCGGGTGGC
 GGTTCTGCGATTCCCTTACAAGCGCCGTTTGTTTGAACATCGTTTCCGCGGCTGTGAAG
 GCTACGGAAGGCACGGACATTCCGGTGACGGTGAAGTTCCGCGTTGGTATTGATGATGAG
 CACCATACTCACTTGGATGCTGGACGCAATTGCTGTGACGCGCGCGCAAGTCCGTAGCG
 CTTACGCCCCGCACTGCGGCGCAGCGCTATTCCGGTGAGGCTGATTGGAACGAGATCGCG
 CGCCTGAAGGAGCATTTGGCAGATACCGGCATCCAGTTTTGGGCAATGGCGATATTTTC
 GCGGCATCCGATGCAACGCGCATGATGGAGCAAACCTGGCTGCGATGGCGTCGTGGTTGGG
 CGTGGTTGCTGGGCGAGGCTTGGCTCTTTGCTGAGCTGTCTGCTGCTGTTCTGTTGGAGAA
 GAAATCCCAGAGGAGCCTACCTTCGGCGAAGTTACCCAAATCATCCTGCGCCACGCAGAA
 CTCTCATGCAGCATGATGGCGAAACCAAGGGCTGCGCGATCTGCGTAAGCACATGGGT
 TGGTACCTGCGCGGTTTCCCTGTTGGCGGCGAATTCCGCTCCAATCTGGCCAAGGTTTCC
 ACCTATGTGGAGCTTGAGGATCTCTAGCACCATGGGCTGACTCCACCGCCAAGGCAGAG
 GACGCGGAAGGTGCACGAGGTGACAGGGCGCTCCTGCAAAGGTGGCACTTCCAGATGGC
 TGGTTGGACGATCCTGAGGATGCCACTGTTCTTAAAGGCGCAGAAATGGAAAACCTCCGGA
 GGG

>RXA00773-downstream
 TAGTTAATTTAATACTTACCCCC

>RXA00778
 CGCAACAACCTTCGCTGCAGCCCAGGTTGCTTTCCGGTGGCTCCGACTCCGCAATGAAGGAC
 GACCAGGCTGCAGAAGCAGAAGCACGTTGCAACGGCAACGAAGCATGGCACCTGCCATTTC
 GTTATCGGCCCAGTTGCAGTTGCTTACAACCTGCCTGGCGTTGACACCCTGAACCTGGAC
 ACCAACATCATCGCTCAGATCTTCAAGGGCGAGATCACCAAGTGGAACGACGAAGCAATC
 GCTTCCCAGAACGAGGGCACCGACCTCCCAGACCAGGACATCTCCGTTCTGTACCGTTCC
 GAAGAGTCCGGTACCTCCGACAACCTCCAGAAGTTCTCGGAGCTTCCACCGACATCTGG
 GAGACCGAAGGCCAGCAGTTCCCAACCGAGGTTGGCTCCGGTGCGCAGGGCTCCAACGGT

GTAGCTTCTGAGGCTTCCAACATCGAGGGTGCAATCACCTACGTTGAAGCTGGTTTCGCT
AACCAGTCCGGCCTGGGCGTTGCAAACATCGACTTCGGTTCCGGCCCAGTTGAACTCAAC
GCTGAGTCCGTTGGGCGTTGCACTTGGTGCACTCGACTTCCTGACTGAGGGCCACAACATG
GTTGTTGACACCGACGCTATGTTTCGCAATGAACGAAGCCGGTGCTTACCCACTGATCCTC
ACCACCTACGAAATCGTCTGCTCCGCAGGCTACGACGAGACCACCCGCGACCAGGTCAAG
GACTTCCTGACCGTTGCACTGGACTCCCAGGATGACCAGCTCGAGGCTCTCGGCTACATC
CCAGTTACCGGCGAGCACTACGATCGCCTCGTTGCAGCAGTTGAAGCAATTCAAG

>RXA00778-downstream
TAATAAACCGCTGCCGTAGCTTC

>RXA00787-upstream
CCAGCCCCCAATAAATAATTTCTCTCTTCTAATTGCGGAGCCTCATATATTGAGTACG
GTATTTTGAAACACCTTCAGCCCCCTTTTATAGGAGCCACA

>RXA00787
GTGTCTCAGCCTCTCAGCAAGCGTCTCAGCATACGAAAAGCACTCGCCAGCGCCTTCATA
GTTGCGCTGGGCGTTTTCGCTTTCCCCAGTAGCCAAAGCCCAAGCCAATGAACTCCGACG
ATGATCGTGTTGGACAATTCAGGCTCCATGACAGCTCAAGATGCCGGCGGACAGACCCGT
ATCGATGCAGCAAAACAAGCCTCCACTCAGTTAATTAATGACATCTCCGACCGCACCGAC
GTAGGTCTGACCTACTACGGCGGAAACACCGGCGAAACAGAAGCAGACGTTGAGATGGGA
TGCCAAGACGTCACCATCCTTGGCGGCCCTCCCGAGGAAATGCAGACACCTTAATTGAC
ACGATCAACAGCCTGCAGCCTCGAGGCTTCACCCCCATCGGCAAAGCACTCACCGATACC
GCCGCCGAGCTCCCCGAAGGCGGAAACATTGTGTTGGTCTCCGATGGCATCGCCAACCTGC
ACCCACCGGATGTCTGCGAAGTAGCCCAAGAACTGGCTCAAAGTGGAATCAACCTGGTT
ATCAACACCATCGGACTAAATGTTGATCCAGCAGCGCGCAAGAACTGGAGTGC

>RXA00791
CTATTCTCACCAGCCTGCCACAAGAATCCCGCTTTTGGAAAAATCCCTGTAGAGCCAGGT
GAAACCATCTCAGTTTCTGCCAACACAGTTACCGACCCAACAGTACTCACCATGGGGCAA
GGCGGAATCAAGCTTGAAGCCCAACTCCATACTGAAGAGGCTCCACAATACGGCCTGCGT
GGTCCGTGCACTCGGGTCTCATTGATAATTTCAAGCCCGGCCTTGGTGTACGCGGAATC
CAAAACGCGTCCGTTGCATCAAAGAAGTGGGCACCAACAACCTGTGACACCGATGCCATC
TACCTCGAAATTTCTAGAAGCGGAGATTACCTCAACGGGCAGGACATTCACACGGAAATC
ACCATCGAGCGCTTCGGAAGTAGATGAATCAACAATCGGAAATGTCACAGAGGAACAT
AGCTCCGTGATCTTACCGAGGCTGCAGCATCAGAGGCACACCCTGTCACACCTGGCCAG
TGGTTCACATCGGCCGCTGATCTAGATCCCGCAGGTGAGAAAGTCTCCTCCATCATCGTT
CCAGGAGAAACCCACTTCTATGCGCTGCCTGTGCACTACGGCCAAGAACTGCGCGCAGCT
GTAGAAACAACCTTTTGACCAAATCGACAGTTCCGCGCTTGGCACGCATCTTTATATCCAA
GCGTTCAGCCCAAACCGGCAGAGATAGAGCTACCAATAGAGATACGTCATATGCGGAC
GACAACGGGCTCAAACCTTTTGATTCTTCACCCAGTGAGTGCAGCAAATTTGTTTCGAG
AAAAGTTCTCAAGGCATATCGCTAAGGAGCCCATGGCAAGGTGGCACC

>RXA00793-upstream
TCGCTGGTTTTTTAGATGGTTTTCAAGCCAGCGAGACCACATTAGTTTCACGCTGGTTGAA
ACCTTTGAGATCAATATAGACCGTGTGGTCTACTCGAGGA

>RXA00793
ATGAGTGAAAACAATCCCACTACCTTGCACTGGTTCTTACCCACCTATGGCGATTCTCGC
GGAATCACAGCCGGCGGGCATGGCTTCGGCTTCCACTCCGGAAGCCGGACAGCAGACCTC
GATTACCTCTCCCAAATTGCCCTGGCCGCTGAACGAAACGGTTTTGAATCCGTCCTGACT
CCCACTGGATTGTGGTGCGAAGATGCGTGGATCACCAACGCGAGCGCTGCTGTCTAGGACA
TCAAACTGAAATTCCTCGTTGCTATTTCGACCAGGCCAAGTTAGCCCCACCATCATCGCG
CAGCAGGGTGCTGCCTTCAGAAATTCCTCAAATAACCGCCTGCTCATCAACGTCGTGGTG
GGTGGCGAAGACCATGAACAGCGCGCTTTCGCTGATTATTCTTCCAAAGAGGAGCGCTAC
CACAAGGCTGATGAAACCTTAGAGATCATCGATCACCTATGGAACAGCGCAGAACCTCTA
AATTTCCAGGGTGAATTCCTCAGTGTGAAAACGCGGTATTGAAGGAACAGCCCAGGTT

TCCCCACCGATTTACTTTGGCGGATCCTCACAACCTCGGCATCGAAATCGCAGCCCCAACAT
TCCGATGTTTTATCTCACCTGGGGTGAACCTGCGGAAAAGGTAGAGGAGAAGCTTGCCCCG
GTGCGCGCCGAAGCAGATAAGCGAAACCGCGAAGTACTATGGCATCCGCCTGCATGTC
ATTGCTCGACCAACTGAGGATGAAGCCTGGTCAGTGGCTCAAAATCTTCTTGACCAACTT
GATCAGGAAGAGGTTGCCCCGATTCAGGAAGGGCTTGCAGCTTCTCAATCGGAAGGTCAG
CGTCGCATGACGGAACCTTCATGGACAAGGGGCAGCATTACAGCAGGAGCAGATGCTCGC
TCCCTTGAAATTGCACCGAATCTCTGGGCAGGTGTTGGGCTAGTCCGCGGTGGCGCCGCGC
ACAGCGTTGGTGGGTTCCTATGAGCAAGTCGCGCAAGCAATTTTGGGATACCGCGATATT
GGTCTGAGCCACTTCATTTTCTCCGGCTATCCACATTTGGAGGAAACCTATCACGTGGGC
GAAGGAGTGGTACCTGAGCTCCTCAAATTGGGTGTTCCGGTGAACAACCATGAAGAACAA
CGCAACGACGTGGTAGCGACTCCGTTTATTTCCAGA

>RXA00793-downstream
TAGATCACGGATCGGCTGCTTTA

>RXA00797-upstream
TTCATTGAGGGTGAATGCTCTCCTTGTTTCAGATGTTCAACGCTCCATAAAGTAGACCGC
AATCTAGACAAAGATGTCTATTTTAATTAAGGAGCAGAAC

>RXA00797
ATGGCCACGGCCGAGAACACACAGGAGAATCGGAAAATCCTGTTCAACGCATTTGAT
ATGAAGTGCCTTGCAGCATCAGTCCCCAGGACTGTGGACACACCCGAAGGATAAGGCGCGA
GACTACAACACTCTTGATTACTGGGTGCACCTTGCCAAGACTTTGGAGAAGGGCCTTTTC
GACGGCCTTTTTCATCGCAGATGTGCTTGGAACTTACGATGTTTATGGTTCTAGTAATGAA
GCGGCGTTGAGCAGTGGTGCAGGTGCCTGTCAATGATCCGATCCTTCTTGTCTTCTGCG
ATGGCCTATGCCACAAAGAACCTCGGGTTTGGCATTACTGCAGGTACTGCCTATGAGCAC

>RXA00820-upstream
ACTTCCACCACCCCAAACCATCGTTTTCTTTTGAAGACGCACCAACCTCACCGGCCAGGA
CCTGGGCTTTTTCGAGTGGCGCACTGTACCCAGGAGATG

>RXA00820
GTGAACACCTTCGCGGACGCAACTGATGATCAGCAGTGGATTACACTGATCCTGAGCGC
GCCAAGGACGGTCCCTTTTGGTGGCGCAATTGCCACGGTTTCTCACCTTGTCATGATC
ATTCCGTTCTGGGGCGAGCTTCTCGATGTCACCGGCGTGACCACCAAGGTGAAGTATGGC
CTGGATAAGGTGCGTTTACCTCTCCCGTCAAGGTGCGTTCCCGCATCCGCATGGGCGCT
GTGGTCCGTGAGATCTCTGAGGTGAAGGGCAATGGCCTGCACCTGGTCCCGCATGGCACT
ATTGAGATCGAAGGGCAGGAGCGCCCGCGCTCGTAGCTACCTTCCTCACCGCTTCTAC
GCT

>RXA00820-downstream
TAAAAGCTTGCTTCTCGACGCAA

>RXA00833-upstream
AGCTTTTTTGATGTGTCATATCGTACCGTTTGCATAGGCCTGTTTCGCGCTTGGTGAACCT
TTTCTAGCACCAAAACAAACTCTCCCTAGTATGGGGTCC

>RXA00833
ATGGCTAAAACACATTTTCAAGGCAACGAACTGCTACCTCCGGCGAACTGCCACAGGTG
GGCGACAACCTCGCAGAGTTCAACCTCGTCAACACCGAACTGGGCGAGGTCTCCTCAAAG
GACTTCCAGGGCCGCAAGCTTGTCTGAACATCTTCCCATCCGTTGACACCGGCGTTTGT
GCAACATCAGTCCGCAAGTTCAACGAGGCAGCAGCAAGCCTGGAAAACACCAACCGTGCTG
TGCATCTCCAAGGATCTTCCATTCGCACTGGGCGGTTTCTGCTCCGCAGAAAGCATCGAG
AACGTACCCCCAGTATCCGCATTCCGTTCCACCTTCGGTGAAGACAACGGCATCGTGCTC
GAAGGCTCA

>RXA00844-upstream

GGTGACGGCCAAAGGCGCGCGCATTGCGCGCCCCAAAATCGACGTCATTGACAGCATCTT
GTGACAACATTTTGTAGAGCAACCATCTAGACTGTTCTTT

>RXA00844

ATGTCTTCTGCGTCATTTACCACCAAAGCACTGTCCGTA CTGCGAGCTTTAACGGCTGCG
TCTGCCCCCTTAGTGGCGGCTCACCTGCACATGCTTTGGCAAATGCTCGCAACGTTACG
GGTTCAAGCACCACCTTCAGATTCAATTGTTCTGCTGACATCGGTAACACTGCATGTACA
GGAACCATGATCACCCCAACGTGGGCGATCACCGCCCGCCACTGTATCCCTGAGGGCGGT
ATTGCCGGTGCAGCTATTGGTTCAAGCACTTTGAGCCAATTTAGCAGGTGTCCCAAGCG
ATCTTGACCCCTACTGCGGACTTAGCTCTCGTTGAGCTTCCCAATCAGGCAAGTTCCAAC
ACGGTTGATCTCTACGGTGCACACGTGCAGCCTGGTGAAAATGGTCAAGCAGCCGGCTGG
GGTGGGTACTCTGCCTTTGGCCAAAATGTTGCACAGCAAGCCGATGTGCAAATTCAACGC
AGGGTAGTCAATGTGCCAAGCCCCGACCGCACCGCTGTGCTGCTTGAAGGCACTGTTTCT
AACGGTCGTCTCGTACCAGGCGATTCCGGCGGACCTTTGTACATCAATGGTCAACTGGCT
GGTGTGCTCAGCATGTCCACTGACGTAGAAAACGATGCACTAGACGGCACCGTCGGCTGG
TATACCCCGTTGCTGAACACGCGAGTGATCGCCTACTACACCGGCAAGCACATTTGCC
CCATTGCTGGTGCGCCCGCAGAACTTTGTTGACGCCACCGCCAACCCACCTTCATCCCT
GCTCCACAGCCTTTACCCGGTTCATCCATCGGTGGTTGGGCGCTGGGCAGCTCC

>RXA00844-downstream

TAGAATATGCTGATCTCCCTGCT

>RXA00857

GCAGTCGGTATTGAGGTGCCAAACTCTGACCGTGAGATGGTTTCGCTGGGTGATGTGCTC
AATGCGCGTGCCACCGTGGAACAAAGACTCCATGCTCATTGGTTTGGGTAAGGATATT
GAAGGCGACTTCGTGTCTACTCCGTGCAGAAAATGCCTCACCTTCTTGTGGCTGGTTCC
ACCGGTTCTGGTAAGTCGCGCTTCGTGAACCTCGCTGCTGGTGTCACTGCTCACGCGTGCA
AAGCCAGAAGAAGTCCGTCTGATTCTGGTGGACCCAAAGATGGTGGAACCTCACACCATAC
GAGGGCATTCCACACCTGATTACGCCGATCATTACCCAACCAAGAAGGCCGCGGCAGCA
CTGCAGTGGCTGGTTGAGGAAATGGAACAGCGCTACATGGACATGAAACAAACCCGTGTG
CGCCACATCAAGGACTTCAACCGCAAGATTAAATCTGGCGAAATTGAGACCCCTCCAGGA
TCCAAGCGCGAATACCGTGCGTACCCATACATCGTGTGTGTGGTTCGACGAGCTCGCTGAC
CTGATGATGACCGCACCGGAAGGAAATCGAAGAGTCCATCGTGCGCATCACCCAGAAGGCA
CGTGCCGCCGGTATCCACCTCGTGTGGCAACGCGAGCGCCCATCCGTGGACGTTGTGACC
GGTCTGATCAAGACCAACGTTCCCTTCACGTTTGGCTTTTCGCAACCTCATCGCTAACTGAC
TCCCGCGTTATTTTGGACCAGGGTGGCGCTGAAAAGCTGATCGGCATGGGCGACGCGCTG
TTCATCCCACAGGGTGCCGGAAGCCACAACGTATCCAGGGTGCCTTTGTACCGGATGAA
GAAATCCAAGCGGTTCGTGGACATGGCCAAGGCTCAGCGCCAGCCTGAATACACCGACGGT
GTCACCGAAGATAAGGCTTCCGAAGCTAAGAAGATCGATGCCGATATCGGAAACGATCTG
GAAGATCTCTCGAAGCAGTCGAACCTCGTGGTGACCTCACAATGGGATCCACCTCCATG
CTGCAGCGCAAACCTGCGCATCGGTTTGGCAAGGCCGACGCTCATGGACCTCATGGAA
ACCCGCGGTGTGGTGGGCCATCCGAAGGCTCTAAGGCTCGTGAAGTTTTGGTCAAGCCA
GAAGAGCTGGAACCATTTTGTGGATGCTTAAAGGTGCAGACCCCGCCGACGCACCGAAG
GAAGAGACCTGGGATGACGAGGTGGCAGCGGAAGCTGAAGAAGCGGCTAACACCACCGTC
GTGCAGGCTGATCCTTCCAAGGGAGTGTGT

>RXA00857-downstream

TAAGGCTTTAGGAGCCTAGTGGC

>RXA00866-upstream

GCATCAACGTAGGAGATCCTCGACTTCCAATTATGGCTCCAAATGAGCAGGAACCTTGAGG
CTCTCCGAGAAGACATGAAAAAGCTGGAGTTCTATAAAT

>RXA00866

ATGAATGATTCCCGAAATCGCGGCCGGAAGGTTACCCGCAAGGCGGGCCACCAGAAGCT
GGTCAGGAAAACCATCTGGATACCCCTGTCTTTTCAGGCACAGATGCTTCTCTAACCAG
AGCGCTGTAAAAGCTGAGACCGCCGGAACGACAATCGGGATGCTGCGCAAGGTGCTCAA
GGATCCCAAGATTCTCAGGGTTCCGAGAACGCTCAAGGTTCCGAGAACC GCGAGTCCGGA
AACAAACACCGCAACCGTTCCAACAACAACCGTCGCGGTGGTTCGTGGACGTCGTGGATCC
GGAAACGCCAATGAGGGCGCGAACAACAACAGCGGTAACCGAACCCTCAGGGCGGAAAC

CGTGGCAACCGCGGTGGCGGACGCCGAAACGTTGTTAAGTCGATGCAGGGTGCGGATCTG
 ACCCAGCGCCTGCCAGAGCCACCAAAGGCACCGGCAAACGGTCTGCGTATTTACGCACTT
 GGTGGCATTTCGAAATCGGTGCGAACATGACCGTGTTTGAGTACAACAACCGTCTGCTC
 ATCGTGGACTGTGGTGTGCTCTTCCCATCTTCAGGTGAGCCAGGCGTTGACCTGATTCTT
 CCTGACTTCGGCCCAATTGAGGATCACCTGCACCGCGTCGATGCATTGGTGGTTACTCAC
 GGACACGAAGACCACATTGGTGCTATTCCCTGGCTGCTGAAGCTGCGCAACGATATCCCA
 ATCTTGGCATCCCGTTTACCTTGGCTCTGATTGCAGCTAAGTGTAAGGAACACCGTCAG
 CGTCCGAAGCTGATCGAGGTCAACGAGCAGTCCAATGAGGACCGCGGACCGTTCAACATT
 CGCTTCTGGGCTGTTAACCCTCCATCCCAGACTGCCTTGGTCTTGCTATCAAGACTCCT
 GCTGGTTTGGTCATCCACACCGGTGACATCAAGCTGGATCAGACT

>RXA00877

GCAGCAGCAGTTGGCACCGAAGGCTACGTGGTTCCTGGAAGTGCACCGTGCAGTCA
 GAGCAGGCAGTATTAACCGAATCCGCCTCGCGTGCAAAGCTTTATGAAGCCTCCCAGAAG
 CGTGGCGCCAGCCTGAACAAGGACGTGTGCTCGAAACCGTGCCTGCTGCTGAACGC
 GGCACACTTTTAGGCTACGACACCCACGCGATTACGTTCATCGAAGAAGAAACCGCGAT
 GACGTGCGAGCCGTGCGCGCCTTGCTTTATGATCTCGCCCCAGCCGCTCTGCCAATGCG
 AAAGCCGAATACAACTCTCCGCAGAAGAAGCAGAAGAACACGGCCAAAAAGTCGGCGCA
 GCTGACTGGAGCTTCTGGGAAGCCAAAGTCCGCGCCCGCGACTACGCCCTGGACGAAACC
 GAACTGCGCAACTACTTCCCATTGAACCAAGTACTCCGTGACGGCGTCTTCTTCGCTGCT
 AACCGCCTCTACGGAATCACCGTGGAACCACGCCCTGACCTGCGCGGTTACGCCGAGGGC
 GTGGACGTCTGGGAAGTCTCGATTCTGACGGCTCCGGCATCGGCCTGATCCTTACCGAC
 TACTACGGCCGACCATCCAAGCGGGGCGGCGCTTGATGTCCAGCTTTGTGACCAATCC
 GAGCTGTAGGCACCAAGCCAGTCGTGGTCAACGTTATGGGTATTACCAACCAACCAACC
 GGCGAAGCACTACTCAGCCTCGATGAAGTAACCAACCATCTTCCACGAATTTCGGCCACGGC
 CTGACGGCTTGCTGTCCAAGGTGCGCTACCCAAGCTTCTCCGGAACCTCCGTGCCCCGC
 GACTACGTAGAATTCCCCTCCCAGATCAACGAAAACCTGGGCATTGACCCCTGCAGTAGTC
 CGCAACTACGCCCCGCCACGTGGACACCGGCGACATCATTCCAGACTCCCTGCTTGAGGCA
 GTGGAAGCATGTGGCATTTCAGACAGAGTGGTGGAACATGTGAGTACTTGTCCCCATCTA
 TTATCGACCTGCCCTGTCTCTCCCTGTCCACAGCGGATGCCGCAC

>RXA00877-downstream

TAGTCAATGACATTGACCAATTA

>RXA00888-upstream

ATGGTGGCGCTCGCAGCTATCGGCGTGCTGTCTGACCGCTGGTAACATTTCTCTGACATA
 ACCTTTCTTGAACATTCCGAAAGCAGGCCGAAGTAGCACT

>RXA00888

GTGACTGCCCGCGAAAAACCCGCACAGAAGTAATCACCACTGTCTCAATCTAGAACGC
 ACGCTCGCGCAAACCGTTTATAGGAATCAACGACGAAAACCTGCGTGTGTTGGACAATCAA
 ATTGATTGCGATATTACCGTGGCGTGGCACCCACGTGGAACCTACCGGGCCAGCCACGAA
 GTCTCCCGCGCCTCGAAAAATATTTGAGGAAGTGCAGGCGATTGCCCGTGCAGGACATGTG
 ATTAGCCCTGAGACAGTAAAAAATGTCATCAGCATGATTAACGTGGAGACGCCGCAAACC
 GTCTCTGAAATCTTGACCGGCGATATCCTTGCTCGCCGTGGCAAAGTGATCCGCCCTAAG
 ACGCTTGGCCAAAAGCACTACGTGGACGCGATTGATACCAACACGATTGTGTTCCGGTCTG
 GGCCAGCCGTTTCCGGTAAACCTATCTGGCCATGGCAAAGCCGTCCAAGCGCTGCAA
 TCAAAGCAGGTACGCCCATCATCTTGACCCGCCCGCAGTGGAAGCCGGCGAGAAACTC
 GGCTTCTTGCCCGGACCCCTGAACGAAAAGATCGACCCCTACCTGCGCCCGCTTACGAC
 GCGTGCAGCAGATGGTGAACCAAGTCAATCCAAAACCTCATGGAAGCCGGCATCGTA
 GAAGTGCAGCCACTTGCCCTACATGCGCGGACGCACCCCTCAACGATGCATTGCTGATCCTG
 GATGAAGCCCAGAACACCAACCCAGCACAGATGAAGATGTTCTCACCAGCCTGGGATTC
 GGTTCAAAATGGTAGTCACAGGTGACATCACCCAGGTGGACCTCCCAGGAGGCCAAAAG
 TCCGGCCTGCGCCTGGTTCGCCACATCCTGCGCGGAGTAGACGATGTGCACTTCTCCGAG
 CTCACCTCATCCGACGTGGTCCGCCACCAACTGGTTGGACACATTGTGGATGCATACGAA
 GACTATGAAGAACGCGAGGCCCGCGAATTGAAACGCAAACGCCAGGAGACACGGCCA

>RXA00888-downstream

TGAGCATTGAGGTATTCAACGAA

>RXA00892-upstream
 TTGATCGCTGCGAAATCGGGCAGCTGGTAGGGCAAGGTGCTGGGCTTGAGCAGGTGTTCA
 ACAGTCATAGTGACCGATACTAGTTGCTAGAGTTTTTCATC

>RXA00892
 ATGTCTGCCACCTCTTCCGTCACCGTTGAATGCCCGGCGGGAACCATCACCGGCGAGCCC
 CATTATTTCCGCTCGATTCCCTACGCAAAGGCGCGCCGTTTGCTGATGCCGAAAAGCTA
 GAACCCCTGCGCATTGATGCGACCGGCAAGCACGAGGGTCTCTATTTAACGTTGGCAACC
 CCGGAGGCACGGTTCCGGCGCGGATGCCCCGGTGATCGTTTATATCCACGGCGGAGGATAT
 GACGGTGGCACGCGTTTCGATGCCCGCACCGAGCCCACTTTCTTCCGTGAGCAGGGCTTT
 GTGGTGGTCTCCATCGATTACCGCGTCGGCCTGGAGGGCTTTGCGCGCTTCCACGACGAC
 GAGGCCAATCGTTACCGCGGCATCGATGATTGCGTGCTCGCGCTGGAGTGGGTGCAGAAA
 AACATCGAGCATTTTCGGCGGCGATCCCACCAACGTACCCCTCATCGGGCAGTCCGCGGGC
 GCCGGCATCGCGCTCTGGCTCACGCGCCTAGACCACTATAAAGGTGCTTTTCGACGCCTG
 GTTGCCTCTCCCCAGCTTCCCGCGCCAGCCATTGCTGCCGAAAAGGTGCTTTACGA
 CGCGCCCTGGGCAAACCCGTCACCCGCGCCTCGCTGGCGGGCATCAAGCCCGCACGCTTG
 GACAAAGGTACCGTCGCTTTGCTCGCCGCTACTTCACCGACCTGGCACTCGGCCCTACC
 CCATACGACCCGAATGAGCTGGCCGACATCGATTTGATCATCTCTCCACCCGCGATGAA
 ATGTACGGACACCGCGCAGGCTTATGGTTCGACCAGCGTGGCTTCGGCGCAAACCTGGCC
 GCGCGACTTTTTGGCCTGGAGAATTTCGGATACCAATATTAAGGAAGCCCCAAGA

>RXA00892-downstream
 TGACAACCGCGTTGTAGGCCGCA

>RXA00903-upstream
 GCACTCGGAATCGTCGTCCTAGAAAAGAAAGACGCCTAAAATGCCCTCTAAAATATCGCG
 GCCCTATTACCAAGTAGATGTATTAGCTCCGAGCCGTTT

>RXA00903
 ATGGGAAACCCGCTTGCTGTCTATCGCCGATGCTGATGACTTAAGTGCCGAACAAATGGCC
 CGAATCGCTAGGTGGACAAACCTCTCAGAAACACATTTCTTTTAAAGCCAACCCAAGAA
 GGTGCTGACTACCGGGTACGCATTTTACCCCAACCGGTGAGCTCCCCCTTCGCTGGACAC
 CCAACACTCGGAACCGCCACGTGTTTAGGGAACATGCACGGTGAACAGGGAACCCAGTTG
 GTTCAGGAATGTGTGCGCCGTTTAGTTGCTGTGCGCGCTATTGACGGGCCAGCAAGTGGA
 TTGGCTTTTACAGGCTCCACCCACACTCAAAGACGGGCCATTGGATGCTTCCGACCTAGAC
 GCAGCTTGTGAGGCTTTAGGAATCAGCCCCGACTTCATTGAGCCCAACATGGGTAGAC
 AACGGCCCCGCTGGGCAGTAGTGGAGCTACCGAGCGCCCAACACGTATTGGATCTGGAA
 CCCGATTTTCAGTGCACATCCAACATTGAAACTCGGAGTGATTGGGGCCTATCCCGAAGGG
 GCTCCCCACGCTTTGAAGTACGGGCATTGCTCAAGGAATCGGTGAAGACCCAGTTACA
 GGAAGCCTCAATGCATTCATTGCGCAGTGGCTA

>RXA00905
 GATCCAAACCTACTGGAGGACTACGCCGGCGCGAAAGAATGGGTAAAAGAAACACTGACC
 AACGCAGGTCTACCGTCAGCGAATTGCTGCCGAAGATGGAACCACTTTCATCGGC
 ACCCGCAAGGGCTCCGAAGGTGCACCAAGGTACTGCTGTACAGCCACTTCGACGTTGTC
 CCATCCGGCCCTTTGGATCTCTGGGACACCAATCCTTTTGAATCACCGAGCGCGACGCT
 GGCCACGGCACCCGCTGGTACGGCCGCGGCGCGCTGACTGCAAGGGCAACCTGGTCATG
 CACCTCGCAGCACTGCGCGCCGTGGAAGCCAGCGGCGACACCACTCAACCTCACCTAC
 GTGGTTCGAGGGCTCCGAGGAAATGGGAGGCGGAGCGCTCAGCGCGCTCATCAAGGACAAG
 CCTGAGCTTTTCGACGCAGATGTCATCTTGATTGACAGACAGCGGAAACGCTTCCGTGGGC
 ACCCAACCTTGACCACTACCCTGCGCGGTGGCGGACAGGTACCGTACCGTGGACACC
 CTTGAAGGCGCTGTTCACTCCGGCCAGAACGGTGGCGCTGCCCCAGATGCTGTTGCTGCT
 CTCGTGCGCGTTCTGGATACTTTGCGCGATGAACACGGACGCACCGTTATCGACGGCTGT
 CAACACCACCGCAAACCTGGAAGGGCGAGCCTTA

>RXA00905-downstream
 TGATCCAGAGACTTTCGCGAGCG

>RXA00906-upstream

ACCGTGGACACCCTTGAAGGCGCTGTTCACCTCCGGCCAGAACGGTGGCGCTGCCCCAGAT
GCTGTTGCTGCTCTCGTGCGGCTTCTGGATACTTTGCGCG

>RXA00906

ATGAACACGGACGCACCGTTATCGACGGCTGTCAACACCACCGCAAACCTGGAAGGGCGAG
CCTTATGATCCAGAGACTTTCCGCAGCGATGCCGGCATCCTCGACGGTGTAGACATCATG
GGCGACGGCGACAACCCAGCAAGCATGCTGTGGTCCAGGCCTGCAATCTCCATCACCGGA
TTCACCTTCCACCCAGTGGCAGAACCACTCAACGCAGTCCCCGCAACGGCGTCCGCCAAG
CTAAACCTTCGCGTGCCAGCAGGCCTGGAAGCAAACGATGTGGCCGAGAAGCTGAAGCAG
CACCTGATCAATCACACACCTTGGGGCGCAAAGATCACGGTGGAGATCGATGACATTAAC
CAACCGTTCTCCACCGATATTACCGGCCCTGCAATGTCCACCCTGGCGTCCTGCCTGAGC
GCTGCGTACGAGGGCAAGGATCTTGTACCCGAAGGCAGCGGCGGATCCATTCCACTGTGT
ACCGAACTGATTGAGGTCAACCCA

>RXA00906-downstream

TAAGCAGAATTGGCACTCTACGG

>RXA00907-upstream

CCTGAGCGCTGCGTACGAGGGCAAGGATCTTGTACCCGAAGGCAGCGGCGGATCCATTCC
ACTGTGTACCGAACTGATTGAGGTCAACCCATAAGCAGAA

>RXA00907

TTGGCACTCTACGGTGTGGAAGAACCCTCACCGTTATCCACTCCGCTAATGAATCTGTT
GACCCCAATGAGATTGCGGATATCGCCACCGCAGAAGCATTGTTCTGCTCAACTACACC
AAG

>RXA00907-downstream

TAGACCCAAAAGCAGGCGTTAAC

>RXA00912-upstream

CGTACTCGACGCCGACGATGAGCACCTCCGCCGAGAAATCCAAAACGTGCGAGACCT
AGAAGCCACCCTGATCCACACCTTTGAAAGGAGCTAAGCG

>RXA00912

ATGGACAACACCCTCTACACAGCAGGCCTCACAATCGCAGCTGCCTTTTTTCATGCTGTCTG
TTCATCTTACCATCTACCGCATCATCGTCCGGGCCCACTCCATCGATCGCCTACTCGGC
CTGGACGGAACCGTCTCCATGATTCAATGCTCCATGGCCACCTACATCTGCTGGACACTC
GACACCACCGTCACCAACTTCATGATGGTCATCGCACTCTTAGGATTTCATCAGCTCTGTA
TCCGTAGCCCGCTTCCGCAAGAGGGATGGTGCC

>RXA00912-downstream

TAAATGACCCTGCAACTATTAC

>RXA00944-upstream

AAATAGTGGGATTAACCCATTAATTTTATCGCTCTATTTAGTTTCGTCACTGTGTCTGTTA
ATCAATTGACTTCCTGCGTGGTTGAATCAGCGCAAGGATT

>RXA00944

GTGGATTTTTGGACTATTCTCGACACCATGACTTCCCTCCTTACTCCCATTGCAATCCGT
GGATTAGAAATTCCCAATAGGATGTGGCTCGCGCCCATGTGCCAGTACCAAGCCAATAAC
CTCGATGGGGTTCCACTTGATTGGCACCTCGTGCATTACGGAGCCCGAGCTGTTGGCGGC
TTCGGACTCCTCATCGCGGAATCCACCGGCATTAGTCCAGAGGGAAGAATCTCATCGCGT
TGCACTGGCCTATGGAATGAGGCCCAAGTTGAGGCATGGGAGAGAATTACAAATTTTGT
CACGCTCAAGGTGGACTGATCGGTGTGCAACTTAACCATGCAGGCCGCAAAGCGAGCACA
TATCCGGCCCTTCCCTAACTTCCCTACTGGTACTCAATCAGTTGACGAGGGTGGATGGGAA
ACCTTTGGGCCTAGTGCTGTGCTCAGCCGGGGCTTGCAAGATCCGACCGAATTGACCCG

GAAGGTATTGAAAAGGTTATTCAGGATTTGCTGCTGCTGCAGAGCGCGCGGTGCGTGCA
 GGGTTTGTATGCTGTGGAGGTCCATGGTGCCACGGTTACCTGTTGCATCAGTTCCTCACT
 CCCCTCGCAAATAAACGTACTGATATTTATGGAGGTTGTTTTGAGAATCGCACACGACTA
 TTTAGGGAAGTAGCCCAGGCGATCCGTGCAGTGATTCCGGGCTCGATGCCACTGATTGCC
 CGGATCTCTGCCACGGACTGGATTGATGATGAACCTTCGTGGGATGACGATCAAACCGTC
 TCGCTTGTGTGTCAGGATCTGAAAAAGCTGGGTGTGGATGCAGTCGATATTTCCACCGGAGG
 TGCAGTACCCGCGACAATCCCTGTGGAGCCGAGCTATCAAGTGAAATTTGCTCGTCGTGT
 GAAGCAAGAGGTGGGTATCCCTACCTCCGCGGTTGGATTAATTACTCATGTGGGTCAGGC
 GCAGGGGCATCT

>RXA00944-downstream
 TGATCGTGGAGATGCGGACATTA

>RXA00961
 CTAGAGAACTGGCGTATCGGCCGCGATGTTGCTGCTTGGCGACGCCGCCACGCACCCCTC
 CAGTACCTCGCCTCAGGCGCGGTTCATGGCCATGGAAGACGCCGAGGCTGTCGCCCTCTTC
 GCTGCCGACGCTGCGCGTGTGGCAACCTCGATTGGGAAGAGGTACTCGCAGAGGTGGAA
 GCTGAACGCCGACACGCTGCAGCCGATCCAAACCGTAGGCCGTTTCTGGGGAGAGCTC
 TGGCATGTGGAAGGCACCGCACGTCTCATCCGCAACGAAGTTTCCGCCAAGCAGACCGC
 AATGGCTGGTTTCATCTATGCAGACTGGCTGTGGGGTTACGATGCATCCAAGCGTGCCAC
 ATCGCCAACCCTGAGCTCGGAGAAATGCCACAAGCACTGAAGGAATGGCGCTACGCCCTC
 CTCGAACAGAAA

>RXA00961-downstream
 TAGCAGCCTCACCTGTTAAGGGA

>RXA00964-upstream
 TTCAAGGGCTAGACGTATGCAGGTGTTGGGGATTGCTTATCTCAAGGGCAATCACACCCT
 TCATACGCATCTACAACATCCGTAAAGGAGGACTCCAACA

>RXA00964
 ATGGGCGCCCCAGGTAAAAACGATTACGCAACTGAACACGTCAAGCAAGAAGTCCCACCC
 GCAACTCCAGAAGAGCAGGCAGAGCTGGACACCATGTATAAACGCATGGATGACCTGCAT
 CTAAAGCCCCCTGTGGACTCAAATCGGTGGGTTGATGCCAAACCACCCGGAACCACGAGCT
 GTGGCACACAAGTGGGATTGGGCGGAACCTCTGAAGCTCGCGCAGCGCTCCGGTGAATC
 GTTCCAGTTGGGCGCGGTGGCGAACGCCGTGCCATTGGCCTGGCAAACCCAGGTTTAGAC
 GGCAATACCTACATCTCCCCTACCCTGTGGGCAGCAATTGAGTACCTCGCTCCGGGTGAG
 AACGCTCCAGAGCACCGCCACTCACAAAACGCATTCCGCTTTGTTATCGAAGGCGAAGGC
 GTGTGGACTGTGCTTAACGGCGATCCAGTACCAATGCGACGCGGCGACTTCCTGCTCACC
 CCAGGCTGGAATAACACGGCCACCACAACATCGCGACCGAGCCAATGGCCTGGCTAGAC
 GGGCTCGATATCCCATTGTCCTACCAAATGGACACCGGATTCTTTGAGTACGGCACCGAA
 AAACCTCACTGACGAATCCACCCCAGACCTCTCCCGTTCAGAACGCCTGTGGGCCACCCA
 GGACTTCGCCCAGTCTCCTTCCCAGGAAAACTTCTACTCACCATTGGGCGCTACGCC
 TGGGAGCACACCGACGACGCACTCAACGATCAGCTGGCATTGGAAGAAGCAGGACACCCA
 GGAACAGTCGCGCCGGGACATGCTGCGATTGCTTCTCCAACCCAACTACCGGTGGCGAT
 GTCATGACCACCATCCGCGCGGAGTTCCACCGCCTGCGCCAGGTGCATCCACTGCCCCC
 ATTCATGAGGTAGGAAACCGTTGCTTCCAGGTATTTGAGGGTTCCGCAACAATCAATGTT
 GGAGATAAAACCTTTGAAGCTAACACGGCGATGTGATCAATGTACCGTCGTGGCAGAAG
 TGGAAATATCGTCGCTGGCTCTGACGGCGTCGACTTGTTCTGCTTCTCTGATACACCAATT
 TTCGAGGCCCTTAACCTCGCACGTACTTTTACTCCGGAAGGAATC

>RXA00964-downstream
 TAGAACTTATGCGTCTTGCAACA

>RXA00977-upstream
 GAAAACAAACGTCCCTTGAAGCCGTAATGCCCCGTTGACAAATAAAAAGGGTAGTAGCAGT
 TCTTGCCGCTCGACTGCGCTTAGCCCCCTTTTGGTATCA

>RXA00977

ATGCCCCTGCAGCAGCGCAAGAAAACATCCGCTGGGAAGAATGCCACCTCAGGTAGAT
ATTGCCTCCGCTCAATGTGGCAGCATCGACGTGCCCATGCACTATTCTGATCCCTCACTT
GGCGATATCAGCGTGGGCTTTGTCAAGGTCCCTGCCAAGGCGAAAAGCACGGCACCATC
TTCGGTAACTCCGGTGGCCCTGGTGGCGATGCCTATAGCTTCTTCGGCAGCCAATCCATG
AACTGGCCAGAAGCCATGTACCAAAACTACGACCTCGTTGCAGTGCAGCCTCGCGGAATG
GTCGGCTCCACACCGGTTAACTGCGACAACATCGCACCAGGATACGATTTCCCTCTCGCTG
CTCACCCGCGAAGGCGCTTTTCGTAAAGAATCCTGCGAGATCGGCACCCCGGCTACACC
TCCAGCCTGACCACCGACAACACCGCCAACGACTGGGAGCGCGTCCGCCAAGCACTTGGC
GATGACAAGATCTCCATCTTCGGACTGTCCTACGGAACCTACCTCGGATCGGTCTACGCC
ACCCGCTACCCACAGCACACCGACAAGGTTGTCCTCGATTCCGCAATGGCGCCAGCCTG
GCATGGAACGGCATCATGGCCTCCCAAGAACAGGGCTACAAAACCTCCCTCAACGACTTC
TTCACCTGGGTTGCAGAAAACAACGACACGTATGGCCTCGGCACTACCCCACTAGCCGTG
TACCAAACTGGTCAAACAAGATCGTCGCCGAAACCGGAACCAACCAACCGTTGCTCCA
CCACCAGCACAAAGTTGGCGATGTCCACACGATTCGCATGGGCGCGCAAGCAGGCGCA
GACATGATGACCGCCACCAACCAACCTCCGTGCAACTCCAGGGCCTTGCCACCCAGCTC
CTAAACCCTGGATCCAACCAAGTCACTGAGCCCTCTGCTCAACGTCACCCGCGCCTACATT
CCACAGCCATCAACCTGGCCCATGCTCGCAGGCGCCATCTCAGGGCAAACACCC

>RXA00982

TCTCACTAGCAGTCCAACCACTACTCCTCCAGGGAACCAGCGACCCACAAACCCATAC
TGGACCCACAACGAGCTTGCCGACGCCATGAACGCCACGTGGTCACCGTCAACGGACCA
GGACACGGCCAATCCATCGGCGGCACCAACCAAGCAATCAACGACATTGTTGTGGACTAC
CTCCGACCGGACACACCGACGCCACCTGGGTGAAGGCAACACACCCACCCCAATTACG
GCTGGC

>RXA00982-downstream

TAATTGCTTTCCACTTAGTAGAT

>RXA00983-upstream

GTGAGAAAACAGTGGCTCAAATATCGACATCTTCTACTCACAGTTCAACCTGTCTGGCT
GGAGGCCGCTGCATTGGTGTGACGCCGATGAAACGTCC

>RXA00983

GTGACTGCAGGTGAAACCACCACTATGAATGTCACGTTGACCAATCCTTTTCGACAACGCA
ATTTTTGACCGAGCAGTCTCCCTTGAACGTCCCGAAGGATGGCAAGCTGAGGATGTTCTG
GTGTCGATCCCATCTGGAGAATCTGTCAACATCCAGTCCAGGTACAGCACCGCTGGTA
GCCGACAACGGTGAACCTCCAGTGGAGGTGTCCATTCTTGATGGAGCAGACCGCTACACG
GGTCTGTCTCAATCTCACTGTTTCAGGGTGGGCAAGAACCTGCACCAACTTCAGTGAAGGTG
AGCATTTCAAACTCTCAAGGACACTTATGTAGCAGGGGAGAAGATCAGCATTAACCTTGCG
GTCAACAACCCGTTTACGTTACGTTAATTTCGGTGCCAAGCCTGGGGGAAGGCGAGAAC
TGGATGCCTGCAACCTACGCGGATTTGATCCAGAGCAGGGTACTCCCAACTGTCGTTAC
AAGAATTTAGGCGGAATAAGAGCTATGACTGCACCACAACCTACCTATGAAGTCAGCGAT
TTGGATGTAGAACGCGGATACGTGGATATTCCAACGGTATGGACGTTTACTAACTCCGCA
GGCGAAACGGTATGGTCCAAAACGTTGATGTGCCTCGAGTTGAACCTCAATGGAACACAG
GATGCTGTCACTGATGCAATCGTAACGGTTGATCCCATCAACCCAGTTTCATTCCAACGGC
CAGAGCCAACTGTTGAGGTCCAGGCTAATGTCACCTCAGAGGGAGATCTGCCAGCTGGA
TCTAAGGTGGCCTTTTATCTAGATTTCATCGCCCATTTGATACCGCAGCTGTTGATGCGGAA
GGGCATGCCAGCATCTCGATTGATGTGGACAACATCGCAAGCGAGCAGCCTGAACGCACA
TTTGAGGTTTCGCGCCGACTCGTTCGTTCCAGAAGATGCACCACGATCAATCGCGCTGAT
GCCTTGGCACGTTTACAGTCTGTCTGAACAAGTGCAGCAGAACTCCTTGGTGATCATG
AATCATCCAGATGTGTTTCTGATGGACAACAAAGACTATTGTCATCGCAGCGAAGGCG
ACAGCACACGATGGATCGCCGGCGGCTATCGGTACTCTCATTGCATTTTCGCGTCAACGGT
ATTGAGCGGGACGTGGTTCCAACCTAACGCGCAAGGAACAGCAAAGCTTCAGCTAGAC

>RXA00984

CAACGTGGTACCCAGTGCTCCTTGGGGAACTCCATGGATGAAAACAAAAATCGTGGA
CTCAGCGATGGAACCTGATGAACAACAGTCGTTTCATCAGGAGCCGATACTTACCGCAAG

GTGTCTTATTCCACCGACGGCGGCGTCACTTGGACCGAGCCAACTCTTGATACCCAGCTG
CCGGATCCTCGCAACAATGCTTCCCTGATTGAGTATTCGACAGCACCTGAGGGAAGT
GCGCAGGCAAAGTTCTGCTGTTCTCCAACACTGCCACCACGAGTGGCCGCACCAATGGC
ACCGTCCGCATGTCGTGTGATGATGGTCAGACCTGGCCGGTGTCTAAGGTGTTTGAACCA
GGAGCAATCCAATATACCTCGATGGCAACGCTTCCCAACGGTGACATCGGCATGCTG

>RXA00984-downstream
TGAGAAAACAGTGGCTCAAATAT

>RXA01014
GATGATCTGTGGCTCAACGAGTCCTTCGCCACTTGGTCCGCGGCAATTTCTCAGGCTGAG
GAAACTGAATACAACACTGCATGGGTGACTTTTCGCCAATGTGGAGAAGTCGTGGGCGTAC
CAGCAGGATCAGCTGCCTTCCACCCACCCGGTGTCTCTGACGGATACGACATTGAGACT
GTCGACCAGAACTTCGACGGCATCACCTACGCAAAGGGCGCCTCGGTGCTCAAGCAGCTG
CAGGTATACGTTGGCCGTGAGGAATTCCTGGCAGGCGTACGCAGGCACTTTGCCAACCA
GCATGGGGCAACGCCAGCTTTGATGATCTGCTCGCGGCCCTCGAGCAGTCTCCGGCCGC
GACCTCTCCGACTGGGCAAACCAAGTGGCTCAAGACCACCGGCATCAACACCCTCGGCGCA
AAGTTACCAACCGACAACGGCAAATACACCTCCTTCTCCGTCAACCCAGACCGGCGCCGCG
CCGGGTGCCGGTGAGCTGCGGACTCACCGCATCGCGGTGGGTCTTTATAAGCTTGTGAC
GGATCCCTCAACCGCTACGCACGAGTAGAACTTGACTGCAGTGGCGCGTCGACAAGCGTT
GAAGAGATCGTTGGACTTGAGCAGGCTGACTTCGTGCTGGTCAACGATGATGATCTGACG
TATGCGCTGCTGGATCTGGATGATGATTCACGCAATTTTGTCTATCGACAATATTGATAAG
TTCAGCGACCCTATGCCTCGCACGCTGGTGTGGTCCGCTGCGTGGGAGATGACTCGCGCT
GGTCAGATGAAGGCTCGTGATTTTCATCGCGCTGGTTGCTCGTGGCGCTGCTGCGGAACT
GAAATTGCTGTGCTGGAGCGCATTTCTCGCGCAGGCTACCTCTGCGCTGAAGAGCTACGCC
GACCCAGCGTGGGCGAAGCAACTGGAAATGACCTGCTGGCCGATGCTTTCCCTTGAGGGT
GCTCGCTCCGCGAAGCAGACTCCGACACTCAGTTGGCGTTCATTAGGCTCTGGCAAAA
GCAACGCTCAATGATGCTGCTGCCGATTACTTCCGCGACATTCTTGCCGGCAACGTCGAA
GGCCTGACCGTGGATCCTGACCTGCGTTGGTGGGCACTGACTGCGCTTATCGCCCGTGGT
GACATCGAGGCTGTGCAAGATGCAATCGCCGCTGAACCTTTCCGCGCAACTCCAGTGCC
TCCTTCCTCGCATCACTTCGAGCCGGTGCCGCTGTGAACACTGAAGAAGTGAAGGCTGCT
GCATACAAGCATGTCCCGGCACTTGATAGTGGCCTATCCAACCTGGAGCTGCGCCACAAG
ATTGAAGGCCTCACATTCACTGGCTCTTTTGAACCTGCTGCAAGCCTACAACGAGCAGTAC
TTGAAATCCTTTGATGATGTGTGGGCGAACTTCTCCGGCGAAATGGCACAGCAGATCGTC
CTCGGACTGTTCCCTTCATGGAACGTTTCCGAAGAGGGTCTCAAGCGTACCGACGAGTTT
CTTGATGGCGAATGTCGACGAGCATCAAGCGAATTGTTTCCGAATCCCTCGACCGCACT
GCCCCTGCTCTGCGCAAC

>RXA01018-upstream
TCTTAAAGTTTTCTAGCAATCCACACTAGGCGCGAACTATCGTGGTGTCATTGCGCACCT
TCTAAGGGTAGCGCCCCCTCAAATTTCAAGGAGCATTAAA

>RXA01018
TTGACGTCCACTAATCTCACCCGACAGGAAGCTTCGGATCGTTGAGGTTACTGAGTGTA
GAAACTATGACATTGCACTTGATCTCAACAACGGTGATGAGTTTTTTAGTTCTCTCCACC
GTTGTGAGCTTCACTGTCAGGAAGGCTGGCGATACCTTTATTGATCTCCGCGCAGCAAGC
GTTGAGGAGGTTGCGCTGGACAATGTGTCCATCAAAGATGAGGCTCTAACCCCTTGGAAG
AACGGCTACGACGAGACGTTCCGGCATCGCCCTGAAGGGTCTTACTCCCGGCGCGCACACC
TTGCGGGTAACGGCGTCTATCCCCATTCCCGCACCGGTGAAGGCCTGCACCGCATGGTG
GATCCAGCAGACAATGAGGTGATTTGTACACCCAGTTTGAGACCGCCGATGCCAAGCGT
ATGTTTCGCGTGTTCGATCAGCCAGACCTCAAGGCTACCTATGATCTGAACATCAAACT
CCTAAGGGTTGGAAGATCATTTCCAACCTCTGAGCAGCAGGTTTCCACTCAGCACACTGAT
TACGATACCCACATTTCCCGAGTGGACTATCCCCTCTCCACCTACCTGATTGCGGTGTGC
GCGGGTCTGTTACCACGAGGTGTGCGATGTCTGGAAGGGTACGCTCACCCACCATGCAGAA
ACACCTGCCGATCAGCCAACTGAGCTGACTGTTCCGCTTGCTCTCTACTGCCGCACTTCT
TTGGCTAAAGATCTTGATGCGGTGCGTCTGTTTACCGAAACGAAGCAGGGCTTTGATTGG
TACCACCGCAACTTCGGTGTGGCGTACCCATTCCGCAAGTACGATCAGATCTTCGTCCCT
GAATTTAATGCTGGCGCGATGGAG

>RXA01022

CACTTTTCCGATGGCAGCTTGTATGCCACCGCTGATGTGATTTCCCTGTGCTGCATGGT
CGTTTTGGTGAAGACGGCACTGTGCAGGGTCTGTTTGCCTGTCTGATATTCGGTCTGTT
GGCCAGGTGTGCTGGCCTCTGCTGCGGGAATGGACAAGGAATACACTAAGAAGCTCATG
GCAGCGGAAGGGCTGCCGCTTGGCCGTGAGGTGATTCTACGTGATCGTACCGAGCTGACC
GAGGCAGAAAAGAACCTGCTGGGCCTGCCTGTATTTGTGAAGCCTGCGCGTGGTGGCTCA
TCGATTGGTATCTCTCGTGTACTGCGTGGGAGGATTTTAATAAGGCTGTGGGGCTTGCT
CGTGCCCATGATGAGAAGGTCATTGTGGAATCAGAGATCGTTGGCTCTGAGGTGGAGTGT
GGCGTGTGCTGAGTATCCAGACGGTCGTATCGTGGCGTCTGTTTCTGCGTTGCTGTCTGGC
ACCGAATCAGGCGCTGGTGGATTCTATGACTTTGATACCAAGTACTTGGACAACGTTGTT
ACTGCAGAGATCCCAGCACCGCTTGATGAGAAGACCACGGAAGTATCCAGTCTTTGGCT
GTGGAATCTTTCCAGGCTCTTGCCTGTGAAGGCTTGCTCGCGTGGACTTCTTTGTTACC
GCCAATGGTCTGTGCTCAATGAGATCAACACCATGCCAGGATTTACCCCATTTCCATG
TACCCACAGATGTTCACTGCATCAGGCGTGGCTTATGAGGAATTGTTGGATGTGTTGGTG
CAGCAGGCATTGCACCGCGACAAC

>RXA01022-downstream

TAGCATCAAATAAAAACAGCCCC

>RXA01055-upstream

AGAATGAAGTGGGTGGGTTCCTGGCCCGGTCACTCCGGATGGGCGTCCGTTGATTGGGCA
GACCAAGGCGGAGAACATTTACGTGCGCGTGGTCACGGC

>RXA01055

ATGTGGGGTGTGGTGTGCTGGGCCCTGCCACCGGTAAGTATTTGGCGGAGCTGATGGCTACG
GGCAACACCAACCCGATCATCAAGCCGTTCGATCCGCTGCGT

>RXA01055-downstream

TAACTGCCCAATAATTGGTTGAA

>RXA01056-upstream

CAAGAAATAACCCCATAGGAATTTCCAAACCAATACATTTAAGTACGAACTCATGAATAC
TGGGGGCACTAGGAGTCCACCCACCCCTCAGGAGGGTTTC

>RXA01056

ATGAGTTCGTCTGGAAAAGTCATTGTTGTTGGAGCCGGCATAGTGGGTCTTGCCACCGCC
TGGCATTACAGGAGCACGGGTTCGAGGTGAGCGTCCCTTGATCGGGATGGTGTGCTGCA
GGTCTTCTGCTGGGGTAATGCTGGTTGGTTAGCGCCGGCGAAAACATTTCCGTTGTGCGAG
CCGGGGCTGTGGACGTATGGTCCGAAAGAGCTGTTCAATCCGGTGTGCGCGATGCATATG
CCACTTCGTGTGGATCCCAACTGTGGCTTTTCTTGGCGCAATTTATGGCGCAGGCTTTT
CAACGCAAGTGGGATTCCACGATGGCGGACCTCACGGAGATCGATAAGGTGCGCGCTCGAA
GCTTTTGTGTAAGTGTGATCGGTGGCGTGGGAGGCGCTACCCATGAAGGTCCATTTGTT
ATTGGTTTTTGGGAAGAGCGCCAATCGGCGGGTTTCCGTAAGGAAATTGATGGCGTGAGC
AGGCACGGCCAGAAAGTGGAGATGTCTCGACTGGAGAATCCACAAGAGTTGGCGCCGATG
CTGAATGAGCAAATTCAGGTGGCTTACCGTTTGGGAAGGCCAGCGTTTCATCGAGCCGGGT
CCATACGTGCAGTCATTGGCGGATGCTGTGGTGAAGCGTGGTGGCGTGATCCGCGCCGGG
GCAGAAGTTGTGCATGTGGCGAAGGGTGATCGTCCCGCGGTCAATTTGGCGGATGGTAGC
CGTGAAGAAGCGGACAAGGTGGTTGTGGCAACGGGTGCCTGGCTGCCGGGTCTAACGCGT
GAATACGGTGTGAAAACCTCTGTTGAGGCTGGTGTGGCTATTCCCTTCTCTGTGGCAACG
GATATTCCTGCCAAGCATTTCTGTGTACCTTCCCCACCACCGCATGGCCTGCACGCCGTA

>RXA01056-downstream

TGAGGGCCGTTTCCGCATTGCGG

>RXA01057-upstream

AACTAATGGGCAGGCTGAGCAGCTTAAACAACACATCGATAGCCTCCAACCGCGGGGCTA
TACGCCGATTGGTGAATCCCTGCGCAAGGCTGCAGCAGAA

>RXA01057

TTGCCTGAAGGCCAATCTGGCACCATCGTATTGGTCTCTGATGGCATTGCAACGTGTACG
CCCCCTCCAGTGTGTGAGGTTGCTGCAGAACTAGCCGACCAGGGTGTGATCTGGTGATT
AACACTGTTGGATTCAACGTCGATGAGTCTGCTCGCGCGGAAGTGGAGTGCATTGCGCAG
GCTGGAAACGGTACTTATGCAGATGCGAGCGATGCGGATTGCTTGTGGCAGAACTGAAG
CGAGCTGCCACCCGACGCGCAGTGGGCTATGAATCAGACCTGGAACAAATCGATGGCAAC
AGCAGCCAAACAAGCCTGACCCCAATTCCAGATGATGTGGAATTGTTCAAAGCCGATCTT
CCAGCACTAGATAATAAAGACGGCGAAGTAAGTCACTGAGTACTGGTCCATTCCCCGTTGAAGAT
TATGAACGTGTGCAGGTAACCACTCGTATGTTGCGCCAGTGACTTTTGGACTCGGGAAC
GACTACCTGAGCATTAGGAATGAAGTCTTTTCGGAGATGAACAAGATCAAACCTGTCAT
CGTTCGATCAGCAATGATCAAATTCTTGATAATTACGGTGCAGCGGCTTTGGTTGCCAGT
GTGGAGTCAGATGTGATTGGAGATAAGTGCAGATACCGATGAAGTGGTTCGCAATCACC
AGAAGCCAGCCTTTCAATTGGGAAGAAGAATTACCTGTTGAGATCGTGGTAAAGCGCCTT
AATCACGCGGATACGTGAGGCTTCCACTCGGTGATCAACAGCGTGAAATCCCAGATCTC
GACGTGGCCGCGAGTACAAACATGGGCACCCACCACTGGCGGATCTTGGTTTACCAACGCT
ACGGAGCTAACTCCAGGTGAAGGTGTTGAAGCAGAGATCGTACCTGGTGAAAATCACGTT
TATCGCCTGCCTATGGCAACTGGTCAGCAGCTGCATGGCTTTGTGGAAGTTGTAGAAAAC
ACGGCACCAGATGATCCTGGCGTGACGGACAAATTGGGTGTTGCAGTGTATTCGCCAACA
CGACAGGACGCCGAGTTGATATGTGGACGGATATCGCTCCACGTGAGGGCACCAGTGAG
TATTTTGCAGCGCCAGTTGCACTGACTTATCTGAATATGTTCCCTGCTGAAGGCGGATTT
GGCACTACTTCTAAGGCCACCAGCACGTTTACGTTTGAAGGCGATTACTACCTCGTTGTG
CACTATGACGATCTCAGTGGCAGTACAATCAGAGATGCCAGCAACCAGCAGTCTTTTCCC
CTTCGTTATCGCTTAGCAGCGGATGCTTTTGGTGATGCAGAGCCAGGCCAGTGTGTA
AAGGTTTCTGCAACCACCTCAGAATCCTCTAGCCCAAGCACTCAACCAGATGAGCCAGCT
CAAAATACCGCAACTGAGGAAAGCAGCACTGGAATCTCCCCGCTCATTGTTGGCGCTATC
GTCGCACTCATTTTGGCGTTCGCTGCGTTTGCCAGCTGGCTAGTTTGAAGGCCGCAAG
AAA

>RXA01057-downstream

TAACCCCATAGGAATTTCCAAAC

>RXA01059-upstream

AATTATTAGCTTTCCAATACAAAATTTAAATCCCAGAGCGATCTGCCCCACACTTACTTG
ATGCGGGAACAAATTTGAAGGTTTTTCAGTTGCTATAGGT

>RXA01059

ATGACTACAGTTACTCAAGACCTTCTAGCACTTGACGAAGACGCACAGAACCTCCTTTTC
CGTGAGGCTCGCACCGCAAATGCTTTCACTGATGAACCAATCTCTGACGAGCAGATCGAA
GCAATCTTCGACCTAGTTAAGTGGGCACCAACCGCAATGAACTCCCAGCCTCTGCGCGTG
GTAATTGTTGCTTCCGAAGAAGCCAAAGCTCGCCTCGTGCCATTGATGGCAGAAGGCAAC
CAGGCCAAGGTTGCTGCAGCTCCTGCGGTGCACTTCTTGACGCCGACATCGACTTCCAC
GAAGAAATGCCCAAGCTCTTCCCACCTTTCCAGGCGCACGCGACATGTTTGAAGCCGAT
GAAGCTTACGTGCTTCCCTCCGAGAACTCAATGCTGGCCTTCAGATCGGATACGCCATC
ATCGGTATCCGCGCAGCAGGTCTCGCCGCTGGCCCAATGACCGGCATGGATGCAGACGCT
ATCTCCAAGGAGTTCTTCCCAGACGGCCGCCACCGCTTCTGGTTGCCATCAACATGGGT
AAGCCAGCTGACAATGCTTGGTACGACCGCCTGCCACGCCTTGAGCAGGACGAAGTTGTC
GAAACCCCTC

>RXA01059-downstream

TAGAAACCACTCTAGAAATAGCT

>RXA01073-upstream

TAACCGACTCCAGCACTAAACTCCAAACCCTTGGCCCGCACCGCCAAAGTTTAGCGCGCC
CCAAGACACCACCGCGCCATGTTTGCTAGGATTAGGTAC

>RXA01073

ATGACAAACACTCAAACCGAGATCATTAAATGAACTAAAGGTGAGCCCAGCAATCGACGTG
GCCAAGGAAGTTGAATTCCGTGTGCAGTTCTCGTCGATTACCTGCGGGCTTCCCATACA

AAAGGCTTTGTTCTTGGTATTTTCAGGTGGCCAGGATTCCACTCTTGCGGGACGACTCACG
 CAGCTGGCAGTAGAGCGCATTTCGTGCGGAAGAAAACAGCACGGATTATGTCTTCTACGCA
 GTTCGCCTCCCCTACGCGATCCAGGCAGATGAGGACGATGCGCAAGTTGCATTGGAATTC
 ATCGCACCTGACAAGAGCGTGACCGTCAACGTTAAAGACGCAACGGACGCCACCGAAGCA
 ACTGTTGCAGCTGCTTTGGAACCTCCTGAGCTGACCGACTTCAATCGGGGCAATATTAAA
 GCTCGCCAACGCATGGTTGCCCAGTACGCAATCGCAGGCCAGTTGGGCTTGCTGGTTATT
 GGCACCTGATCACGCGGCTGAAAACGTCACGGGGTTCTTACCAAATTCGGTGATGGCGCA
 GCTGACCTGCTTCCCTTTGGCAGGTTTGAGCAAGCGTCAAGGAGCTGCCATTCTGGAGCAC
 CTGGGTGCACCTTCAAGCACGTGGACCAAGGTTCCCTACCGCTGATTGGAAGAGGATCGC
 CCAGCGTTGCCAGATGAGGAAGCACTTGGTGTGTCGTATGCGGACATCGATAATTACCTG
 GAAAACAAGCCCGATGTCAAGTGAAAAAGCCAGCAGCGCATTGAGCACCTGTGGAAGGTG
 GGCCAGCACAAAGCGCCACCTCCCTGCTACCCCGCAGGAAAATTGGTGGCGT

>RXA01073-downstream
 TAATCCAACAGTTTGAGTGTGCG

>RXA01082-upstream
 GGCCTTGCTTGCGTTAGTTGCAGTGCTTCCCTGAATATGCTTCTGAAACGGTTGTGAGCA
 CACTTATCAAACATCGGCGGCGAATTAAGAAGGTGAACAG

>RXA01082
 TTGACGCAGTGGGGTAATTCGAATGTTGTGGAGGACTATCTCACAGCACTTTTCCGTGCA
 GAAGAATGGGATGAGGAACCAACAACAGGAAAACCTCGCTGAAGTAATTGGAGTTACCGCA
 TCAACGGTGTCGGCGACGCTCAAAAACTCAACCCTGAGGGCTTCGTCAATTACCGTCCC
 TACGGGGACATCGAGCTGACGCCCCGAGGTCGAGACATCGCCATCAACGTGATCAGGCGG
 CGCCGGATCATTGAGACCTATCTGTCTGAGAAGCTTGGATTAGGCGCTCATGAACATACAC
 GGCGAGGCAGATTTATTAGAGCACGCACTGTCTCCACTGGTGTGGAGAAGATGTTTCAG
 GCAGTGGGCTATCCAACGTTGGATCCTCACGGGGATCCCATCCCCACCGAATCTGGGGAG
 ATGACCATCAATGATGGACTCATGCTTTTGGGACTAAAAGCTGGCGCATCTGCCACGGTT
 ACACGTGTTAGGGACGGAAACCCATCAGTGGTTCGGTACCTCACTGGAGTGGGAATTACC
 GTGGGCACAACGGTCACGGTCGTTGAAGCTCTTAGCGATATTGCCACACTGCGCCTGCAG
 ATCGGGGAAATGTTTCAAGACATTCCCCTTGCAAGTGGCAAACGCAGTGCGCGTATCACGT

>RXA01082-downstream
 TAGTTCAGCGTGCCAGCGCGCT

>RXA01090-upstream
 GCCGGTTTGGGCTGGTTGGAGCTCTAGATCGTAAGTGGTGTGCTACCCATGACGTACCAT
 TAACCACGAACGTTTAAAGAAGCCACGAAGGAGCCTGAC

>RXA01090
 ATGGCGTTACCACTACCCAGCAAGAGCGCTCGAGCACTTGTTACTGGGGCAAGCCAAGGC
 ATTGGCCTCGCCATCGCCAAAGATTTGGCGCGGTATGGGCACAACCTCATTTTGGTTGCT
 CGCCGCGAGGATGTCTTCAAAGAGATCGCCGAGATCTAGAGAAGAAGCACGGCGTGATC
 GTTGAGGTCCGCCCCGGTGGATTTGAGTGATGAGCCAGCCGCAAGGTGTTGATCGATGAG
 ATCAAGACAAGGGAAATCAACATCATTAATCTGCTGGCATCGGCAAGCTTTGGGCC
 GTTCAAGGACCA

>RXA01090-downstream
 TGATTGGTCTTATGAGACTGCCA

>RXA01113
 GGCGATATTTGGGAACGTCCAGGCCTTGATCACACTCAGCGTCGCCTGCTCACCATCGCG
 ATTTTGACCGCGGTGGGCAATGACGGCGAGTTGGACATGCACATTTCGTGCTGCTCTGCGC
 GCTGGCGTGGATCAGGAAACCATCGGCGAGGTATCTTGCACACTGCGGTGTATGCGGGT
 GTGCCGAACCTCAACCATGGTTTCAAGCTGCTGAACAACGCTGTGTCAGACCTTCAG

>RXA01113-downstream
 TAATTCGGAAGCTCTCCACGGG

>RXA01117-upstream

TACGAAATCTGGCGATTGTTTCGACCATCCCATCAACTCCTCTTTTTGTTTCGCATTGCGAA
CCCTTGTGCATATGATGAACATTACGTTAGCATGTCTCAC

>RXA01117

ATGATTAACAAGAGCATTTCTTCCACTGCTGAAGCGGTGGCCGATATCCCAGACGGTGCG
TCCATCGCCGTCGGTGGTTTCGGCCCTCGTGGGCATCCCCACTGCATTGATCCTCGCCCTC
CGCGAACAAGGCGCAGGCGATCTGACCATCATTTCCAACAACCTAGGCACCGACGGTTTC
GGCCTCGGACTGTTGCTTTTGGATAAGAAGATCTCCAAGTCCATCGGCTCCTACCTTGGC
TCCAACAAGGAATATGCACGCCAGTACCTGGAAGGAGAACTCACCGTCGAGTTCACCCCG
CAGGGCACCTTGGCTGAACGCCCTCCGCGCAGGTGGCGCCGGCATCCCTGCGTTTTACACC
ACCGCAGGCGTGGGCACCCAGGTTCGAGAAAGGCGGACTCCCACAGCGCTACAACACCGAC
GGCACCGTCGCGGTGGTGTCCAGCCAAAGGAAACCGCGAATTCAACGGCCAGCTCTAC
GTCATGGAAGAGGGCATCCGCGCCGATTACGCACTCGTGCACGCACACAAAGCAGATCGC
TTTGGCAACCTGGTGTTCGCAAGACCGCGCAGAATTCAACCCAGATGCAGCAATGAGC
GGCAAGATCACCATTTGCTCAGTTCGAGCACTTTGTAGACGAACTCCACCCAGATGAGATC
GATCTGCCAGGAATTTACGTCAACCGCGTCGTCCACGTTGGACCGCAGGAAACCGGAATC
GAAAACAGGACGGTGTCTAAC

>RXA01117-downstream

TAATGACTTGGGATCATAACCAA

>RXA01120-upstream

ACAGGTAAAGCGCTAAGATGGAACAACCCATTGCCAATATTGTTGGTTAGAGTTGTACGC
AGTAAATCTTTTCAATCGTGGAAGCGGGTCTCACAGTCTA

>RXA01120

ATGGCACGTATGCAGGAAAGCGCCGATCTGCTCAAATGTTTCCTTCTGCGGAAAGAGCCAA
AAGCAGGTAAAAAACTCATCGCGGGTGGCGCCGTATATATCTGTGATGAGTGCATTGAG
CTGTGCAACGAGATTATTGAAGAAGAACTCGGTCAAGCTCAACACGACGAGCAGGAGCGC
AACGAGCTCCCCAAGCCGTCGGAGATTTACGCTTCCCTTGATACTTATGTATCGGGCAG
GACCCAGCAAAAACGTATCCTGTGCGTTGCGGTGTACAACCATTACAAGCGTCTCCGCGCA
TCGGAAACCATCGGTGCTGCGCAGGAATGACGAGCCTGAAACCGAACTGGTTAAGTCCAAT
ATTTTGATGCTCGGCCCCACTGGCTCCGGCAAGACTTTCCCTTGCCAGACTTTGGCAAAG
CTGCTGGATGTTCTTTTGCTATCGCGGATGCCACCTCACTGACCGAGGCTGGTTATGTG
GGCGAGGATGTGGAAAACATCTTGCTCAAGCTGCTTCAGGCTGCTGATTTTGATGTGGAA
CGTGACAGCGCGGCATCATTTACATCGATGAAGTGGACAAGATTTCCCGCAAGTCTGAA
AACCCATCGATCACTCGCGATGTTTCCGGTGAAGGCGTGCAGCAGGCACTGCTGAAAATT
TTGGAAGGCACTGTGCGCGCAATCCACCGCAGGGAGGACGCAAGCACCCCAACCAGGAT
TTCATCCAGCTGGATACCAACCAATTTTGTTCATCGTTGCTGGTGCCTTCTCTGGTCTG
GAGAAGGTATCGCGGACCGCAATGGCAAGAAAGGCTTGGGCTTCGGTGTGGAGGTCTCT
TCCAAGAAGGAAGAAGCCAAACATTGTGGATATCTTCAAGGATGTCCTCCCTGAGGACCTG
GTGAAGTTTGGTCTCATCCCAGAATTCAATTGGGCGTCTGCCAGTCGTTGCCACCGTATCC
AACCTGGATCAGAAATCTCTGGTCAAGGTTCTCACGGAGCCTCGTAACTCATTGGTGAAG
CAGTATCGACGTCTGTTTGAATGGATGACGCTGTGTTGACCTTTACTGATGATGCTTTG
GAGGAGATCGCTAATCAGGCACTCGAGCGCAAACTGGCGCCCGTGGCCTGCGCGCGATC
ATGGAAGAGATCCTGGTTCCGATCATGTATGACCTCCAGACCGTAAAGACGTTGGCGAA
GTCATCATCAACGGTGCCGTTGCCCGTGGCGAAGCCGAACCAAGAGATGTTGGAAGCTGTC
GCAGAAGAAAAGACCGCG

>RXA01120-downstream

TAGTTGGCAGGAGTTATCACCGG

>RXA01224-upstream

TTGGCGGCGGGAAGTTCAAGGCTTGGGGGCAAACAGTGCTTGGATTTTAGACAAAAAACTC
ACGGAAGTCATCCTATGGCAGGCGCGCCTAGGATGGTGCC

>RXA01224

ATGAGCATCCTTGACACGTTGAAAACCTCCCGTGATTGTGCCCCGATGGCTGGCGGCCCCG
TCCACTCCCGCGTTGGTCAATGCAGCAGCAGAGGCAGGTTCCCTCGGGTTCTTGGCTGGT
GGCGTCATGCCTCTTGAGCAGCTGAAACAGGAATTGTGAGAGGTAAAAGGCGTCTTTGGC
GTCAACCTGTTTCGCCCCGACACGGATGCGCCTAAGCCTTCAGACATTGATGAGCTGGCG
GGATTGTTGTCTCGGCGTTTCGGCAATTTGGCCTCGATGAGCCGACGGTGCCTACGCCG
GATTTGAGCAATGGGTGGGAGGCTAAATTTGAGGCCGTTCTTGCCGCTAAGCCCGCCGTT
TTTTCTGCACCTTTGGTATTTTTAGCGCTGAAGAATTCGCCCCGGATCAAAGCCACCGGA
ATTGAGGCGTGGGTGACGGTGACCAATCCGGAGGACGCGCTGGCTGCGCAGAAAGCTGGC
GCCAACGCGCTTGTCGTGCAAGGCCCGGAGGCGGGTGGGCACCGCTCTACCTGGTCCATT
GAAGTGGAGCCGGACGAGCGCGACCTGAAAACCTCCTCGCAGCTGTCAAACAAGCGGGC
GTTTACCTCCCGCTCATCGCAGCCGGCGGCCCTTTCAACCTCCGCAGACGTGGCAGCAATT
TTAGAAGCCGGCGCCAGCGCTGCCTCCTGTGGTTCCGCCTTTTTGCTTAGCGACGAAGCC
GGCACCAGCTCACTTAACCGCGAGATCTTGGACGCCGCCCCAGCACTTGGTTTGGAAATCG
GTGTCTATCTCGCGCATTTTCGGGCGCTTATGCCAGGGGAGTGGAAACCAGGTTACCCCGT
TCGAACGAGGGGTACCCCGTTGTACCCATACCTCAACCAATGATCACATCTTTACGT
AAGGTGGCGGGAAGTGCAGGGAACCTGGGATTACGCCTACTGCCTGGTAGGAGTCGGCCTG
GAATCGATTGCGAAGGGTAGTGCAAAGCAGATACTGGAATCATTAACACCTTCCGCTTTG
GGC

>RXA01224-downstream

TAATGTTGGGGGGAGTGCTTTCA

>RXA01126

TCCGCAGAATCACTGCCACCAACCCTGTTCTGAAGCCACCAACAGCTGTCACCGGACCA
GAGTCCCCAATCCGAATCCCTTCCCTTTGCCACCAAGGTGGAATTCGAAGGTGAGCTCGCA
GTAGTTATCGGCAAGCCCTGCAAGAACGTCAAGGCTGATGACTGGAAGTCTGTCGTTTTG
GGCTTACCATCATCAACGACGTCTCCTCCCGTGACCTCCAGTTCGCTGACGGCCAGTGG
GCACGCGCTAAGGGCATTGACACCTTCGGCCCCATCGGACCATGGATTGAAACTGACATC
AACTCCATCGACTTGGACAACCTGCCCATCAAGGCACGCCTCACCACGACGGCGAAACC
CAATTGAAGCAGGACTCCAACCTCAACCAGATGATCATGAAGATGGGCGAAATTATCGAG
TTCATCACCGCCTCCATGACCTTGCTCCCAGGCGACGTTATTGCAACCGGTTCTCCAGCA
GGCACCGAAGCAATGGTTGACGGCGACTACATCGAAATCGAAATTCAGGCATCGGCAAG
CTGGGCAACCCAGTTGTGGACGCC

>RXA01126-downstream

TAAAATGGATCACCACCAT

>RXA01147-upstream

ATAATGATCACCTACTTTAACGGCTTCAGGTGACATTGTGGATTTCGATTGTGGATTTCGG
GGGCCCCGCGCTGTTTCCAAGAATTTGGCTACCCTTGTTCT

>RXA01147

ATGCATGTAAGTACGATTTCTTAAGTTTTATTGCCCTAAGCCCAAGTTCCTATCACGCG
GCCGCGGCGGTGGAGCGCAGGTTGCTCCATGAGGGGTTTCATTTCGTCAGGAAGATACCGAT
GAATGGGATGCCCCGCCCTGGTGGGCATGTGACGGTGCGTGGGGGAGCAGTAGTGGCGTGG
TGGGTGCCTGAGGATGCTTCGCCAGATTCCGGGTTCCGCATCATTGGGTACATACTGAT
TCACCGGGTTTCAAGTTAAAGCCCCGTGGGGATCTTTCTCACACGGTTGGCAGCAGGCC
GGCGTCGAGGTTTACGGCGGACCGATCCTGCCAAGCTGGCTGGATCGCGAGCTGGCCTTA
GCAGCCGCAATTGTGCTTGCCGACGGGTCCGTCAAGCTTGCAACACCGGCCGATCTTG
CGCATCCCGCACGTGGCTATTCAATTTGGACCGTACTGTTAATTCCCAACTCACCTTAAT
CCACAGCGTCACCTGCAGCCTGTGTTTGCTGTTGGTGAGCCGACGTATCAATTCTGGAT
GTCATTGCTGGTGCTGCGGTAGTGGATCCTGCAGATATTGTGAGCCATGATCTGATCACG
GTGGCTACCCAAGATGCTGAAGTATTTGGCGCACATGGGGATTTCTTGGCGTCTGGTTCG
CTGGATAACCTGAGCAGCGTGATCCATCCATGACTGCATTGATTGCGGCTTCGCAATCT
GACGATACTGGTTTCGGATATTTTGGTTCTTGCTGCATTTCGATCATGAAGAAGTGGGAAGT
AATTCACCTCGGGTGCCGGGGGCCCCCTGTTGGAGGATGTGCTCAACCGTACTGCTCGT
CGGTTGGGTGCAGATGAAGATGAGCGACGCCGGATGTTTAACCGTTCACCATGGTCTCA

GCTGACGCGGCACACTCCATTACCCCCAACTTCCCCGAGAAGCATGATCAAGCTAATTAC
CCCATCATTGGTAAAGGTCTGTATTGAAGGTCAACGCCAACCAGCGCTACACCTCCGAT
GCAGTCACTTCAGGCATGTGGATCAGGGCATGTGAGATTGCCGGTGTGCCACACCAGGTG
TTTGCCGGCAACAACGATGTGCCGTGTGGTTCCACCATCGGCCCCGATCAGTGCAGCTCGC
CTGGGTATCGATTCTGTGATGTGCGTATTCCATTGCTGTCCATGCACTCCGCACGCCAA
ATGGCCGGAGTGAAGGATCTGATGTGGTTTGAACAAGCCCTGGAAGCCTATCTGGTAAAT

>RXA01147-downstream
TAACGCCGAGTTCAATCAAGACA

>RXA01151-upstream
CCAGGCGTTTGGCTGATGGCGTGGAGCCTCCTCGTCCGCAGCGTAAGGCACGTGATAAA
AAGACCTAGTTGGAGGGCGTAAAGGGTTAGAGTGGTGACC

>RXA01151
ATGAGTTCACCAACTGATTCTTCGCCCTCTAATTCTTTTAGCGACTTCAACCGGGAGGAA
CAGTCCCGGTTATCTGATGAGGTGCGCCAGCTCAAGCGCACCAACTCTGATCTTGGGGCA
CGTAATGCCAAGCTCGCGGAGATGCTGAAGTCGTCTCGGGATAAATTGTCTGTGCTGTTT
TCTCAGTTGGAGGATATGGCTCAGCCGCCATCGGTGTATGGCACTTCTTGAAACCGCG
AAAGACGGTTCTAATGCGGAGATCTTTGCTGGTGGACGTGCGATGCGTGTGGCTGTTTCT
CCTATGCTGTGTGCCGCGGATTTGATGCCGGGTGTGCAAGTTTCGTTTGGGTGAAGGCAAT
CAAGTTCTTGAGGCCTGTGATTTTGAACAAACCGGTGAATTAGCCACGTTGATGGAAATG
ATTGGCCGGGATCGTGCTTTGGTTTCAGATCGCTCGGGGGAGGAGCGCGTCAAGCTT
GCTGGTCCGTTGATGGATCGCACCGCAAAGCTGCCGCGCCCCGGTGACACCCTGCTTGT
GACCGCAAAGCGGGCTACGCTTTTGAGGCGATTGCCAAGACGGAATTTGAGGCTTGCG
CTGGAAGAGGCGCCAGATGTGTCTTATCAGGATATTGGTGGCTTGGATGATCAGATTGAA
TTGATTCAAGATGCCGTTGAGCTGCCATTTTTGCACCCGGAGATGTACCGCGCCTACAAC
CTGCATCCACCAAAGGGCGTGCTGCTGTACGGCCCTCCCGGCTGTGGAAGACGCTGATT
GCTAAGGCTGTGGCTAATTCTTTGGCCAACCGCATCGGTGAGACTGGCACCTCGTACTTC
ATCAACGTCGAAGGGGCCA

>RXA01571-upstream
AAACTACCTGCTGAGAGCTTTGTAATTTACGGTGTGGTTGTGGAGGGGTGCGTCGAGAAG
CGCTCGTAGGCGCTTTTGATTTTTCGGTAGGCTAACTGGG

>RXA01571
GTGAGTATCTCAGTAAAAGCACTACAAAAGTCCGGCCCCAGAAGCACCTTTCGAGGTCAAG
ATCATTGAACGCCGTGACCCACGCGCAGATGATGTGGTTATTGATATCAAAGCTGCGGGC
ATCTGCCACAGCGATATCCACACCATCCGCAACGAATGGGGCGAGGCGCACTTCCCGCTC
ACCGTCGGCCACGAAATCGCAGGCGTTGTCTCTGCGGTTGGATCCGATGTAACCAAATGG
AAAGTCGGCGACCGGTGGGCGTCCGCTGCCTCGTTAACTCCTGCGGCGAATGCCAACAG
TGCGTCGCAGGATTTGAAAACAACCTGCCTTCGCGGAAACGTGGAACCTACAACCTAAC
GACGTCGACGGCACCATCACCCAAGGCGGCTACGCTGAAAAGGTAGTGGTCAACGAACGT
TTCTGTGCAGCATCCCAGAGGAACCTTAACCTTCGATGTGCGAGCACCACTGCTGTGCGCA
GGCATCACCACTACTCCCCAATCGCTCGCTGGAACGTTAAAGAAGGCGACAAAGTAGCA
GTCATGGGCCCTCGGCGGACTCGGACACATGGGTGTCCAGATCGCTGCAGCCAAGGGTGC

>RXA01571-downstream
TGAGGTTACCGTTCTGTCCCGTT

>RXA01161-upstream
TTTTTCGTGATCAACAATCCGCTGGCATAGCGTCCAGCAGATTTGATTCTGACAGTGTGG
TTTGATCGCACACCTGCCTAGGCTACTAGGGTTGGAGACT

>RXA01161
ATGAGTGATCCTTCAACAAACAATTTCCCCACATCGGTATATGCACAGCGTCTTGCGGAT
GCACAAGAAGGCGCACGCAAGGCTGGCTTGAACGGTTTGATCATCGGTACAGGCGCAGAA
CTTGCGTATCTAACCAGGCGAGCTGGATCTCCACCCATGAGCGTCTAACCAGCTTTGGTGATC
CCAGCGAAGGAACCGCAACCATTTGTTCTTCCCGCTGTAGACCGCGGAGACTTAGCACTG

TCTGCTATTCCAGGACTAGACATCAATGTGGCCGGATGGGTTGATGGCGATAATGCCCAT
GAGTTGGCCGTAGATGCTCTCGGTGTTTCAGAGTTCGAAGCATTGGGTATTGGTTCCTCC
ATCACGGCAGATCACCTGATTCCCTATCCAGAACCTGGTGGGCTCCACCTGCCGCATGGAG
TTGGCAGTTCAAGTGCTGAAAGAATTGTTTGTCTCTAAAGACGAAGCAGAGATCGAGCAG
CTTCGCGGGCGCAGGTGCAGCCATTGACCGTGTCCACGCCAAAGTCCCGGAGCTTCTTCAA
GACGGACGCACCGAAGCAGAGGTTGCAGCACAGCTCAACGATCTCATCTTGGAAGAGCAC
TCTGAGGTGGACTTCGTGATTGTGGGATCCGCTGAAAACGGCGCGAACCCTCACCACGGT
TTCTCTGACCGAGTCCCTCCGCAATGGCGACATCGTGGTGGTTGATATAGGAGGCACCTTC
GGCCCTGGTTACCCTCTGACTGCACACGCACCTACATTGTGGGCGGAAACCCTGACGAT
GCGGATCCAGAGTTCGCTAAGTTCTACCAAGTGCTCTACGAAGCACAGCTCGCAGCCGTT
GCGCATGTTCCGCCCTGGCGTTACTGCAGAATCAGTGGACGCTGTTGCTCGCGATCACATT
GCTGCGGCTGGATACGGCGAATACTTCATTACCGCACAGGACACGGCATTGGTCTATCC
ACCCATGAGGAGCCATTTCATCATGGCGGGTAACCTACTCGTGTGGAAGCCGGAATGGCC
TTTTCCATTGAGCCTGGCATCTACATTGAAGGAATCCACGGAGCGCGCATCGAAGACATC
GTTGTGGTGAATGAAGACGGTTGTGAAACCCTCAACAACCAGCCCAAGGAAGTGCCT

>RXA01161-downstream
TGAGCATTCTTCTCCTAGGCGGA

>RXA01181
TCTGTACTGCTCGCTCGCGACTTGGTGAACACCCCTTCATCACACCTGTACCCAGAGTCC
TACTCAGTAATTGCATCCAACGAAGCGTCCAAGCACGGCTTGCAGACCACCATCCTGGAT
GAGAAGCAGCTTGCTGATCAAGGTTTCGGCGGCATCCTCGCAGTCGGTAACGGCTCCTCC
CGCAAGCCTCGTCTGCTGCGCATCGATTGGAAGCCACGCAAGGCTAAGAAGTCGATCGCT
TTGGTTGGCAAGGGCATCACCTTTGACACCGCGGAATTTCCATCAAGCCTGGCGCAAGC
ATGGAGAACATGATCTCCGACATGGGTGGATCCGCATCCGTATTGGCCACCATTATCGCT
GCAGCTCGTTTGAACCTGTCGATCAACGTCTTCGCGTTCTACCAATGGCTGAGAACATG
CCATCCGGTGACGCTTTCCGCCCCGGCGATGTCATCACTCATTTCCGGTGGTATCACCTCC
GAAATCTTGAACACCGACGCTGAAGGCCGCTCATTCTGGCAGATGCCATTGCTTACGCT
TCTGAAGATAAGCCTGACTACCTCATTGATGCGGCAACCCTGACTGGTGCTCAATTAGTC
GCTTTAGGCCTGCGGACTTCAGGTGTCATGGGTACCGATGAGTTCCGCGACAGCGTTGCC
AAGACTGGCCGCGAGGTTGGCGAGCAAGCATGGGCAATGCCTCTTCTGAAGAGCTCGAT
GAGCAGGTTAAGTCCCCTGTCGCTGACCTGCGCAATGTCACCAATTCCCGTTTCGCAGGA
ATGTCCTGCTGCGGGTCTTACTTGCAGGAATTCGTTGGTGCCGACATCGAGTGGGCTCAC
GTCGATATCGCTGGCCCTGCATACAACACTGCTGGTGAATTTCGGTTACACGCCAAAGCGC
GCAACCGGACAACCAAGTGCGCACCTTCGTTTCAGGTTCTGAAGGATCTGTCGGAAAGC

>RXA01181-downstream
TAAACGCTAGTTAAAGATCAGGA

>RXA01182-upstream
GTTAAAACGGAAACTAATACCCCAAAGGATACCGATTCAATTTGTGATGTGTGGTGTTCG
GGTCATATCAAGCTAAACAGATGCCCCCTACAATAGGCTT

>RXA01182
GTGTTCAATTTATTTGGTTCGTAAAACTCCTCGCTCTAACCTCCGCCCCACCACGCGGTCCG
GGCGATACTGTGCGCCCGGAAGATTTAAAATTCTTGATGCAATGGGTGCAGGATAAGCCA
TTTGTGAGGCATTCGTTGAACCGGAAACGCTGGTCAATGAGATGTCTGTCGTTTGGTT
GATGCTCATGGGGTTTTTGTCCGCCGAAGGATCGGCGGTCCCAAAGGGATTGATGTTATC
GCGAAAAAGCTCGGCGTTCGGTTTTATGATGTTGAGGAGACCGGTTACCCCCAAAGGATG
CGGAACGCATTGAATATGAGCGCATCTTAAGAAAGCGTGAGGAACAAAAAGCTCGCCGC
GCTAAATTTGAGCGCGCGAGAATCCTGATCTT

>RXA01182-downstream
TAACTAGCGTTTAGCTTCCGAC

>RXA01189-upstream
CACCTGCAGAAAAGGAAGCTTAA

>RXA01189

ATGATTTCCATTTCCATCGCCGACGACGAAGCCCTGATCGCAAGCTCCCTGGCAACCTTG
CTCAGCTTGGAAACCCGATTTAGACGTCCGACCTACCGCAGGATCCGGTGAAGAATCATT
GAAACGTGGGCGGATCCAAGCAACCGAACCAGATGTATGCGTCCTTGACCTTCAACTCGGA
GGCATCGACGGCATCGACACCGCCACCCGGCTCATGGAAACACCCAGATTTGGCCGTG
CTCATCGTGACCAGCCACGCCAGGCCCGGACAACTCAAACGCGCGCTTGCAGCAGGTGTT
TTAGGATTCTTGCCAAAACATCCACCGCAGATGAATTGCCCACCGCAATCCGCACCGTT
CACGCTGGACGACGCTACATCGACCCCGAAGTAGCCGCCATGACGATCAGCGCCGGTGAA
TCCCCATTAACCAACCGTGAAGAAGAAGTCTCGAACTAGCAGGCCAAGGACTAAGCGCC
GAAGAAATTGCGGTGGCAGCGCACCTCGCGCCGGGAACACCCGCAACTATTTATCCCAA
GCTATGACAAAAGTAGGCGCGCAGAATCGCTTTGAAGCGTTCACGCGCGCCAGGGAATTG
GGCTGGTTG

>RXA01189-downstream

TAGCTTGTGGCTTATCTCCTATT

>RXA01192-upstream

CCACGGTGAACACCTGCAGGTGGAGCAAGCTAGCCTTGCGCATCCGCCAGAGATTATTCC
GGAGATTCTTTTTGGTGGATCGTCGCCAGCTGCAGGTGAG

>RXA01192

GTGGCTGCACGTTATGCGGACACCTATCTCACGTGGGGTGAAACTCCCGATCAGGTGGCG
CAGAAAATCAACTGGATCAACGAGCTAGCAGCACAGCGCGCCGGGAAGTGCGCCATGGA
ATCCGCTTCCATGTGATCACCCGCGATACGTCTGAAGAAGCATGGGTGGTGGCAGAGAAG
TTGATTAGCGGGTCACTCCAGAACAGGTGCTAAGGCTCAAGCCGGGTTTGCAACGTCT
AAGTCGGAGGGGCGAGCGCCGATGGCTGAGCTGCACAGCAAGGGTCGTGCCTTTACTAGT
GGCTCAACTGCTCGTGATCTGGAGGTGTATCCCAATGTGTGGGCAGGCGTCGGTTTGCTT
CGCGGAGGTGCAGGAACAGCCCTTGTGGGCTCGCATGAAGAGGTGCGCGATCGCATCGAA
GAATACGCAGCACTCGGCTTGGATCAGTTTGTACTGTGCGGGTTATCCAACTTGGAGGAG
GCCTTCCACTTCGGTGAGGGTGTGATTCCGAAACTGCTGCGCCGCGGTGTGGATATCAA
AATCAAGAATCACGAGTTTGGAACTGTTGGG

>RXA01192-downstream

TAAACGGG

>RXA01214-upstream

GTTGATATGATGTGGGGTGTTTATGAAAATTTGTTTGAGGGAGTGAAGGCGCATGTTGTT
GCCAGAGTTGAATCGTCGGACTTTTTTCAAAGGGGCGGG

>RXA01214

GTGCTGGCAGCAACGGTGGTGGGTGCGCAGGTGCTGGTGGCGTGTTTCCTCAGATGATGTG
CGTGGTTATGGGGGAGAGCCGCGGACGTTGCCTATTCCACCAGCAGATTTAGGTACGCGT
GAGGGATCTAGCGTGCACTTTGCCCTGGAGGCTCAGACTGGGGAGAGTCAGATTTTGCCG
GATGTCACAACGAAGACGTGGGGTTTCAATGGCACTCATTTGGGGCCGACGTTGGTGGTG
AAGAAAGGTGATGACGTCCACGTTGATGTGATAAACAATTTGGATGAAATGACCACTGTG
CACTGGCATGGCATGAAGTTGCCGGCGATTGCTGATGGTGGTCCGCACTCACCGATCGGG
CCTGGGCAGACGTGGTCACCAACGTGGACTGTGGCCAATGATGCAGCCACTTTGTGGTAC
CACCCGCACACTCATGGCCTGACAGGTTTGCATGCGTACCGTGTTTGGCGGGGATGATC
ATTGTGGAAGATGAAGCAACAGACAAGCTGGATCTGCCACGCGAGTACGGTGTGGACGAT
ATTCCGCTGGTTTTAATGGATCACCGCTTCTTAGAAGACGGTTCCTTGATGAGGAAGAC
CTCCCCGATCTTGGGCTGTTGGGCGATACCCCACTGCCAATGGCATTACCAATGCGCAC
TTTGATGCCACCACGCGCCGGTTCCGTTCCGCGTGCTCAACGGCTCCAATATGCGGTTT
TATAACTTGGCGTTTTTACAGACACGCGCACCTTCCAAGTCATTGCCAGCGATTCGGTTTTG
CTGGATGAACCTCAAGACCGCACACCTTGGCTATTGGCCCAGGCGAGCGGTGGGAAATC
GTCGTGGAGCTAGAGCCCGGCGAGGACGTACCTTGAATCTGTAGGTTTTGAGGACAAC
TACGGCGTCCCTGATGATGAGTTTCGTGCCCCGATTTCGGCATGTGAGATTCCTTCCAGCTG
CTCACCATCACCGGCCCTTCCGATGATGCTGCGCAAGCACCTGCTTTGCCGGGCGTGCTG
GTGAAATCCACCGAACCTGACGTCATCGATGCCACTGAACGCACCTTCATCATGAACACC

TTCTCCATCAACGATCTACAGATGGACATGCAGCGCGTTGACGTGGTGATTGACCATGAC
CAGCCAGAAGTGTGGATTGTCACCAACGACAACCTCCGACTGGCCCCACAACCTTCCATGTC
CACGACGCCCCGGTTTAAAGGTGCTGAAATTTGAAGGCACCGACGTAGAGCTCTTCAACGAC
GGCTGGAAAGACACCGTCGGCCTGCCACCGGGAGCAACCGCAACTTTAGCCGTGGAATTT
GGCCACTACCCAGACCCGCAATGGCCCTACATGTATCACTGCCACATGCTCTACCACGAG
GATCAAGGCATGATGGGGCAGTTCGTTCATCGTGGAGCCAGGCGACGAGCCGGCGGGGTG
CTGGGGTCGGGCACGGGCTCCAGCATTGACTCCGCCGGCGGACATGCGCAC

>RXA01214-downstream
TAGGGGCGTGGGGCGGCGTCGAT

>RXA01224-upstream
TTGGCGGCGGGAAGTTCAGGCTTGGGGGCAAACAGTGCTTGGATTTTAGACAAAAAACTC
ACGGAAGTCATCCTATGGCAGGCGCGCCTAGGATGGTGCC

>RXA01224
ATGAGCATCCTTGACACGTTGAAAACCTCCCGTGATTGTGCCCCGATGGCTGGCGGCCCCG
TCCACTCCCGCGTTGGTCAATGCAGCAGCAGAGGCAGGTTCCTCGGGTTCTTGGCTGGT
GGCGTCATGCCTCTTGAGCAGCTGAAACAGGAATTGTCAGAGGTAAAAGGCGTCTTTGGC
GTCAACCTGTTTCGCCCCGAGACGGATGCGCCTAAGCCTTCAGACATTGATGAGCTGGCG
GGATTGTTGTCTCGGCGTTTCGGCAATTTGGCCTCGATGAGCCGACGGTGCCTACGCCG
GATTTGAGCAATGGGTGGGAGGCTAAATTTGAGGCCGTTCTTGCCGCTAAGCCCCGCCGT
TTTTCTGCACCTTTGGTATTTTTAGCGCTGAAGAATTCGCCCCGATCAAAGCCACCGGA
ATTGAGGCGTGGGTGACGGTGACCAATCCGGAGGACGCGCTGGCTGCGCAGAAAGCTGGC
GCCAACGCGCTTGTCGTGCAAGGCCCGAGGCGGGTGGGCACCGCTCTACCTGGTCCATT
GAAGTGAGCCGGACGAGCGCGACCTGAAAACCTCCTCGCAGCTGTCAAACAAGCGGGC
GTTTACCTCCCGCTCATCGCAGCCGGCGGCCCTTTCAACCTCCGCAGACGTGGCAGCAATT
TTAGAAGCCGGCGCCAGCGCTGCCTCCTGTGGTTCCGCTTTTGTCTAGCGACGAAGCC
GGCACCAGCTCACTTAACCGCGAGATCTTGGACGCCGCCCGAGCACTTGGTTTGGAATCG
GTGTCATCTCGCGCATTTTCGGGCCGTTATGCCAGGGGAGTGGAAACCAGGTTACCCGCT
TCGAACGAGGGGTTACCCCGCTTGTACCCATACCTCAACCCAATGATCACATCTTTACGT
AAGGTGGCGGGAAGTGCAGGGAACCTGGGATTACGCCTACTGCCTGGTAGGAGTCGGCCTG
GAATCGATTGCGAAGGGTAGTGCAAAGCAGATACTGGAATCATTAAACACCTTCCGCTTTG
GGC

>RXA01224-downstream
TAATGTTGGGGGAGTGCTTTCA

>RXA01232-upstream
TATATTKGTMRCTGGCTKACCGRMCCGCGCCMWCGGGTTYACCGCCAGCWTCATCKGAG
WTMGWCGCAAATCTTTNCTCAWCCGGCTGCGTCCCCGG

>RXA01232
ATGAGCAGGCAGAnnAnCACCTACACGGACAAGGACATCTCGCAGTTCCACTGGACCAAT
GGCCTGCCGCCGACCGATGATGAATCCCCGAGTGGATCGCCGCCGCGACAACGAGTGG
GAGGGATACACCATCACCTCGGCGACGATCCCAACGGCACCGAGAAAACCATCACCTC
GACGATCTGCGGGAGCTGCCGAGACCTCGTATGTGCGCCGTCMACACKTSCWTSCAGGNG
CTTGGTCAGCTWCCSCCSTGGRRCCANGGGGTGCCGGTTACCGTGATGTTTTGTGTCAT
GACCTTGTCACACCCCTAGACCTTACCCACAGGCATAGTCCTCGGCTGCTCACAATTGAG
ATCATACCTAAACCCCTGCCCCAGAAACCCGATGCAAGATCATCGATTTTCGATCTGTTT
GCACCGAACAGTCCCTCGATCGAAGAGTTCTGCAGTCGGCTTAAATATCGCGGCGCAGT
TTCTACAACATCCGCAACCGATACCAACAAGATGCCAGTGCAGCGCTGCATCCACGCTCC
AGCGCCCAGATCACCTCCCGGCGAACATACGATGAATCCATCACCAGTATCTTnGTTGGC
CATCnCGCGCACCGCCTGAAAGCCCCAAGGATnGGGAATACGGTCCGATCTCTATCCGATT
nCGAAGGCATCTCnACCnGnGGGAAC

>RXA01232-downstream
TGACTnGnCACCGATTCCAnTCC

>RXA01236-upstream

TTTCCACCAGTTAAGATGTTGTGAGACAAATCCAAACATAGAAGGGCTGTGCATTCTCAT
GGTTTCAACCACAACATCTCGCTCAATCGCTGGACTGTCA

>RXA01236

GTGCTTGTGGCAACAGCACTAATCGCTGGCTGTAGTTCCGCAGAGGATGGGACGGTTGAC
TCGGGGAGCAGCACAGAGGTCACCACAACCCAAAGCAAGGAAGGTTTTCTGTCAACCGTC
ACGTTTGCCCCAGAAGCACCTGTGACCATTGAGGATCAACCAGAGCGCATCGTCAGTTTG
TCCCCAGCGATTACAGAAACCTTGTTTCGCTGTGGGGCAGGGGATCATGTCTGTCGAGTG
GATGAATACTCAAACCTACCCAGAGGACGACCGCTGGTGCAGGGTCTGTCTGGTTTTACT
CCCAATGTGGAGTCCATCTTGGATTACGATCCTGACCTGGTCGTGTTGATGTCTGCAGAT
GATTCCATTTTGACCGGCCTGGATGCTGCAGGAGTGGATACTTTAGTGATCCCCGCAGCA
GAGAACTTGGATGAGACCTACTCCAGATTGAACAAGTAGGTGAGCCACCGGATTTGAA
GATCAAGCAACAACGGTTGTTGATCAGATGAAAACCGCCATTGATGCTGCAGTTGCCACA
GTTCTTGAAGAGGTAAAAGAGCAGGGCTTAACCTACTTCCACGAGCTGGGCAGTGATTTG
TTCACGTGTGTAGAGCAAACCTACATCGGTGAGATTTACGACATGTTTGGTCTCACCTCT
ATTGCTGACGGTGGCGACGCTTACTCGCAGCTATCCAACGAAGCAATCATTGCGGCAAAC
CCTGATCTGATTTTCTCAGCGATGCCAAGGCCGAAAACCTCACTGCAGAAGATATTGCG
GCGCGTCCAGGCTGGGACACCATTGATGCAGTAGCCAATGGACGTATCTACATTTTGGAC
GATGATATTGCTTCCAGGTGGGGACCTCGCGTATCCAGCTGGTGGAAGAAATCGCAGCG
CAGTTGAATCAGCTTGCTTCTTCTGAAGCTGTGCCGGCCGCTGCT

>RXA01236-downstream

TAAGTTTTCTGTGCTGAAGAGAAT

>RXA01250

CTGGATATCGGCGGCATCGAAGCCAAGACGTGGGGATACGTCTCTGACACCGGGGATGCG
GCCATTGAGGCCACCGCCGGCGACGTCTCCAGGTCGATATCACCATGACCTGCCTGAG
AGCACCTCCATCCACTGGCATGGCATCGCACTCCACAACGCAGCCGACGGTGTGCCCCGGC
ATGACCCAGGACCCCATTTGAACCTGGCGAGTCTTTCTCCTATGTTTTTGAAGTCCCCCAC
GGTGGCACCTACTTCTACCATTTCCACACCGGCCTGCAGCTTGATCGCGGCCTCCACGCC
CCACTGATCATCCGTGACCCGCAAGACGCTGAGGACCAGGACGTGAGTGGAACCTTCTG
CTCGACGACTGGGTGATGGCATTCAGGGCACTCCCGACGATGAGCTCGACAAGCTCACC
GGAATGGGTTCGGGCGACCATAACGGGAGGATGGGAATGGGAGGTACGGCCAGATGATG
CACGGCACCCCGGACCGGCTACTGGGCGGGGATGTGCGCGATGTGATGTATCCGCACTAC
CTCATCAACGGACGTATCCCCCGTGTCTACCGGACCTTCGAGGCTCGC

>RXA01254-upstream

CCGATGTTGCCTTCTTAGCAGCTGTTAAAAGGGTAAAAGAAGGGAAGAAAGTGACGTCG
AAAAGCGCTAGTGCCACTTGCTTAACCTAGACTCGTTTTTC

>RXA01254

ATGAAGCTTTCACTGCCTGCACCCCTACGCCGTTTACGCAGCGCTGCCGCCATCATCTCA
GCAAAGTTGCGACATCCGCGTCCAAAGCCACAGGTCGCGGATCCGGTGGCATGATCGGC
GGACTGGTGGCCAGCAAGGTAGACCCGGACATCATGTCCAACCTCATCAACAACCGCCCA
ACAGTGCTGGTCACGGGCACAAATGGCAAGTCCACCACCACCCGCATGCTGGCCGCGCG
ATGCGCAGCACTTACACCGTCGCCACCAATGAAGGCGGCGACAACATGGACGCCGGCATC
ATTTCTGCGCTGCTCGCTGGCCGAAACGCCTCACACGTGGTCTTGGAAAGTCGATGAGCTG
CACGTACCCGCGCCCATCGAACGCCTCAAGCCCGACGCCCTCGTGCTGCTCAACCTTTCC
CGCGACAGCTCGACCGCGTTGGCGAAATTAACAAAATCGAACGTGTCTGCGCGATGCC
GTGCGCTCTCGACCTGAGATGACCGTCATCGCCAATGCGACGACGTCTCTCGTTACCTCC
GTGGCTTTTCGACGCCGAAAACGTCATCTGGGTGCGCGCCGGCACCGGCTGGCAAGGTGAA
TCCGCCACCTGCCCACGCACCGAATCCCGCATCTCCACGACGGACGCCACTGGAGCGCC
GAAAAGACGCTTCTCGACGGCGCACCTTCGCACGCCCCACCCCTCATGGGAGGTTGAC
GGTGATAACCATCCATTACCATCCGGCGATCTACCTTGGATCTCAACCTCCCAGGTGAG
GCCAACCGTGGAACGCGGCACAAGCAATCGCAGCCTCCACCGTATTTAATGTGCCCGTT
TCCTCCGCACTGCCCCGAGTCAACTCCGTCAACAACGTTGCTGGACGCTATTCACCATC
ACTGTGGTGGAACACAAGGTCCACCTCCTGCTCGCCAAAACCCAGCAGGCTGGCAAGAA

GCCCTCTCCATGGTTGATCGCACAGCTGATGGCTTAGTCATCGTCGTCAATGGCCAGGTT
GCCGACGGCGAAGACCTCTCCTGGCTTTGGGACGTCCGCTTCGAAGACTTCGAAAAACCTC
TCCGTCAAAGCCTCCGGCGAGCGCGGCACCGACCTGGCAGTCCGCCTCACCTACGCCGAA
ATCGACCACGAACCTCATCTCCAACCCCGTCGACGCCATCGCAGCCTGCCCTCCTGGCCGC
ATCGAAGTCTCGCCAACTACACCGCATTCGAGACCTCAAAAAGGCTCTGGAGAAAGGG
ACCGAACAA

>RXA01254-downstream
TAATGACCACCTCAACATCGGC

>RXA01257-upstream
GCGAAAATCCCCTGGTCCCGCCCCCTGGTCACGAACAGGTAGGGCTTGGCTCACTCGGTTG
ATTGTAGAGCCTTGGCGCGCATTTGTGGGAAGCTAGATGC

>RXA01257
ATGCATGTTGCTGAATTATCTTTGCCCACTGGAATTATTATCGCGGCGACTCCGCTCGGC
AACATTGGGGATGCGTCTCCGCGCCTGGTCCACGCGCTTGCCAACGCCACTGTGGTAGCT
GCGGAGGATACCCGCGAGGACGGCGTCTTTGGCTGCTGCGTTGGGGGTGGAATTAAGGGG
CAGTTGGTCTCGAATTTGACCATAATGAACAGGCGCGCGTCGGCAAGCTTATTGAAGCA
GCGCGCACGGGCACGGTGCTGGTGGTCAGCGATGCCGGCATGCCTGTGGTTTCTGATCCG
GGTTTTGCGCTTATCGACGCCGCCACGACGCGAACATTCCGGTCACCTGCTTCCCCGGG
CCGTGAGCTGTGCCAACTGCGTTGGCATTGTTCGGGCTTCACGTGGGCCGCTTTGCCTTC
GACGGTTTTGCGCGCGCGCAAACAAGGTGCGCGCACACGTTGGTGGAGTCGTTGAAAACC
GAAAAGCGCGCGGTATGTTTCTTCGAATCTCCTCACCGCATCGCAGAAAACCTGGCTCAC
GCTGCCGAAGTTTTAGGTGAACGACGCGTAGCAGTGTCCGTGAACTGTCCAAAACCTAC
GAACAGGTAAAGCGTGGAACCTTGCCAGAGTTGGCAGAATGGGCACAAGATGGGGTGCGT
GGCGAGATCACCGTTGTCATCGAAGGCGCGGGCGATATCGCGGCCGACGTCGATTGCGTT
ATCGACGCCGCCAGCAGCGCGTCGATTCCGGCGAGCGGTTGAAAGCGGTGTGCGCAGAC
CTCGCGAAAATCCATGGCGTGAGCAAAAATGAACTCTACGATGCGGTTATTTCTGCCAGG
GAAAAT

>RXA01257-downstream
TAATCGTTATGTCATTGTGATGC

>RXA01270-upstream
GCATGCACATGCAGAAAGCCTCGCTCCTAATAATCTCGATAGAGATCGATTTATGCAACG
TGCTGGAAAACCTAGCTTCAACAGATTCCGAGATCATCTAA

>RXA01270
ATGACTAATGAACGAATTTTTCTATCATCGCCAGATGTAACACAGTTAGAGGAAGACGCA
TTGGTACGCGCAATCCGATCAGGATGGATTGCACCGCTTGGTCCAGAAAGTTGATGCGTTT
GAGCAAGAAGCTTGCTGAGTATTGTGGCCGCAATATGTTGTTGCACTTTCATCGGGTACT
GCAGCCCTCCACTTAGGTCTATTAGCACTAGGCGTTGGAGAAGGAGACTTGGTTCTTACA
TCATCAATGACTTTTGCAGCGACCACCAACGCAATTGTTTATACGGGTGCTGAGCCAATT
TTCGTGGACTGCGATGAATCTGGAATATGGATCCAGATCTTTTAGAAAAAGCCTTTGCT
GAGCTAAAAGAGTGAAGGAAAGGAAGTAAAGGCTGTAGTACCTGTGATCTACTTGGCAA
GTTGTTTCAGCACGAGAAGATTAAGAAAGATTGCTGATGAATACGGGGCAGTAGTGCTTTCT
GATGCCGCTGAATCCTTGGGCGCCATTTCGAATGGAAGTCTGCTGCAGCATATGGAGTG
GCGGCAGCGGTTTTCTTCAACGGAACAAAATTATGACTACCAGCGGTGGTGGAGCTTTG
TTAACTGATGACAAGGATATTGCAGACAACGTCCGCTATCTTGCGACACAAGCTCGCCAA
CCTGTAGTTTCATTACGAACACACCGATGTTGGGTATAACTATCGCCTTTCAAATATCCTC
GCTGCACTGGGACGAGCTCAACTTTCCCGACTCGACAAGATGATTGAGCGTCGACGTCAA
CACCGTGCGTTCTATCGAGAATTGTTTGCAGGTGTTTCTGGAGTAGAGATCTTTGGCGAG
CCATCAGGGGTGATGGTGGCGACACTATTGATAATTTCTGGCTCACTTCTATTCTTATT
GATAAGAAGTTGCGGGATTTAGCTCTGAAGATCTTCGATCAGTTCTAAATCAGGCGAAT
ATTGAGTCTCGTCCCTTGTGGAACCAATGCATCTCCAGCCAGTATTTAAGAAGTATCGT
AGCTTACCAATGAAGAAGGACAGAGGCTATTTGATTGAGGGCTTTCTCTCCCAAGCGGT
TCAGTACTTGATAATGCGTCAATGAATCGTGTTGAGACTACAATTGGCCAGTTTTTGGAG
AGTCAGCATGCGATC

>RXA01270-downstream
TAAGTACAAAACTATGGCGTAG

>RXA01277-upstream
TACTACTCGGTTTACGTTTACGTCGGCTGATCCAATTGGAGGCGCCCTCGGAAGCCGCCT
TAAAAACCTGCCGGTCAAAAGATCACTAACCTGAACTTC

>RXA01277
ATGACTGATTACACGTTCCCTCGAAGACATTGACACCCCGGAAGCGCTCGCGTGGGCGGAA
AAATGGTCGGGGGAAAGCGTCGAAAAGCTAAAAAGCCAGCCAAGGACGCCCTGGAAGCC
AGGCTGCTGGCTGCGTTGGACACCGATGATCGCATTGCCTACGTGAGCCGGCGCGGTGAG
AAGCTGTACAACCTTTTGGCGGGACGCGCAGCATCCGCGTGGAGTGTGGCGCACGACCACG
TTGGAGTCGTATGAAAGTGACCAGCCGAGTGGGACGTGCTCATTGATGTGGATGCGTTG
GCGGAGGATGAGGGCGAAAACCTGGGTATGGAAGGGCGCGGTTGTGCGCTCGCCGGAGTTT
GATCGGGCGTTGGTGAAGTTCTCGCGGGGGCGGGCTGATGCGACGGTGATTAGGGAGTTT
GATCTGGCCACGGCTGCTTTCGTGGATGATTCGCCGTTTGAATTGAAGGAGGCGAAGTCC
GATGTCACGTGGGTTGATCTGGATACGTTGCTGGTGGGCACGGATACCGGCGAGGGGTCA
CTGACGGATTCTGGGTACCCGGCGCGGGTGTCTACGTGGAAGCGTGGGACTCCGCTTGAG
CAGGCGGAGTTGTTCTTTGAGGGGTGCGGTGTCAGGATGTGGCGACTCATGCGTGGCGGGAT
TCAACACCTGGTTTTGAGCGGACGTTTGTGTCAAGGTCGTTGGATTTCTATAATTCCGAG
ACGTCGCTGGAAACCGAGGGTGGCCTGGTCAAGCTTGATGTGCCGACCGATTGCGATGTC
ATTGTGAAGAAGCAGTGGATTTTGTGAGTCCTCGGACGGATTTGCTGGGATTCAGCA
GGTGGCTTGGGAGTGCTGCTGTTAAAGGAGTTCTTGAGGGCGGGCGCGATTTTCAGCCT
GTGTTTACGCCTACTGAGTCGACGTGCTGCAGGGATTGGCCACGACAAAGAATTTCTCTG
GTTTTAACGCTCCTTAATAATGTCTCCACAGAAATCGTCACAGTGCCGCTCAATGATCCG
ACAACGGAGCATGAACACATTGACCTCCCAGAGCATGTACCCGCGCATGTGGTTGCTACC
TCCCCGTTGGATGGCGATGAAATTTGGGTGCAGGCAGCGAGTTTCACCGAAGCGCCAACG
TTGCTGCGTGCGGAGCTGCCCTGGTGCCTTGAGGCTGTGAAGAAGGCGCCGTTGCAGTTT
GAAAATGCTGGTCAGGAGACTCGTCAGCATTGGGCAACCTCGGCGGATGGAACGAAGATT
CCGTACTTTATTACAGGAGCCTTCGAGGAGGAACCACAAAACACCTGGTCCACGCTTAC
GGCGGCTTCGAGGTTTCCCTTACCCCAAGCCACTCCCCGACCCGCGGCATCGCATGGTTG
GAAAAGGGCTACTACTTTGTGGAAGCCAACCTGCGTGGTGGCGGTGAATTCGGTCCGGAA
TGGCATTTCGACGGCAACCAAGCTGAACCGCATGAAGGTGTGGGAGGATCACCGCGCGGTG
CTCGCCGACCTTGTGGAGCGCGGCTACGCAACGCCGAGCAGATTGCGATTGCTGGCGGA
TCCAACGGTGGTTTGCTGACAAGTGGCGCGTTAACTCAGTACCCAGAAGCATTCCGTGCG
GCAGTTGTGCAGGTGCCGTTGGCTGATATGTTGCGCTATCACACCTGGTCAGCGGGTACC
TCGTGGATG

>RXA01277-downstream
TAGGTGTCGGCAACCATGGGAAC

>RXA01288-upstream
TGCTCAATTTACACCACACGACATCACTGGAAAAACCTGACATCGCCGGCTGATATATA
TGGAAATATCAACTCCACCCACGTTGCGGGTACGCGCGTG

>RXA01288
ATGAATGGTATCGGCGGCTCGGGCGATTTACGCGTAACGCCTTTGCTTCCACATTTATC
TCTCCCTCGGCAGCCAAAGTTGATGCGATTTCCGCGATTGTGCCTTTCGCGTCCCATATC
GATCACACGGAACATGATGCGATGGTTGTCTACTGAATATGGCTACGCAGACCTGCGC
GGGCTATCGCCAAAACAACGAGTCCCCAAAATGATTGCCATCGCCACCCGGACTATCGA
CCACTGCTGGAAGCATACTTTGACCGGGCGCTGAACAGTGCTGATTCTATCAGCACACC
CTGCATGATCTGCGCACCGCCTTCGATTTCCATAATCGCTTGAACCTACAAGGAACCATG
AAAAATCGAAAAAGCA

>RXA01288-downstream
TAGTGCTTTTCGACGAGCCCTCC

>RXA01302-upstream

TGGGGCTGCGTGGTGTCTTTCATCATCGCCACCGCTTTGACCTGGATCTACTACGCCCCG
CCGAACGCTCCATTCCCGGGATAAACCGAAAGGCCAATCC

>RXA01302

ATGACTACAACACTACTTCTTCTGCGGAAGTCTTCTGAAAAGATCAACCCCTCTTCAAGCTC
GGCAGTTTCTAAGAAAAGGCACCGTCGGTCTGAAGGCCAGCAGATTTTCTTCAGGGC
GGACGCCAAGCCGATGTGTTTATCGCAACCGATGGGCTTTGATAAAGTCGTGCGCTCC
ACACATGGCGTGAACCTGCACGGGCTCCTGCTCGTGGAAGTGTATGTAAAAGACGGTGTG
ATCACCTGGGAATCCCAGGCAGTGGATTACCCAACTACCGGTGCGGATATGCCCCGACAA
GAACCACGTGGCTGCCCTCGTGGTGCATCATTTTCTGGTACACCTACTCCCCAACCGGC
ATCCGC

>RXA01303-upstream

AACATGCGGGCGCAGGTCAGAGCTGTTATCTTAGTACTTATCACAGCCATAGGGCGGGCT
TGACGGAAAGCCTTTCCGCGTAACCATGAAGAGGCATCAC

>RXA01303

GTGACACAACCTCAACACCAAAGGCGTTGTTCTGCAAGGGTGGGATCCAGAAGATCCTGAA
CATTGGGACTCGAAAATTGCATGGCGAACCCTGTGGATTACCACCTTCTCCATGATTATT
GGGTTCTGCGTGTGGTATTTGGTTCTGCCATCGCTCCCCTACTCAATCGAATTGGATTT
GATCTCTCAGCAGGTCAGCTTTATTGGCTCGCATCTATCCCCGGTTTGGCCGGCGGATTA
ATCCGATTGATTTACATGTTCTTCCACCGATTCTTGGAACCCGCAAATTGGTCGGAATT
TCCTCCGGTCTATTTTTGATCCCCATGTTTGGGTGGTTCCTGGCTGTCCAAGATTCAAGC
ACTCCCTACTGGTGGCTTCTCACACTCGCTGCACTCACTGGCATTGGTGGTGGCGTGTT
TCTGGATATATGCCGTCACGGGATACTTCTTCCCAAGGCAAAATCGGGCACTGCGCTG
GGCATTTCAGGCAGGTATCGGCAACCTCGGCGTCTCGATAATTCAGTTCATGGGCCCATGG
GTCATGGGTTTCCGTCTGCTGGGCATTGGTTTCTCACCCCGCAGCGCACCATTTGAAGGC
ACCACGGTGTGTTGTGCACAATGCTGCGATTGTGTTGGTCCCGTGGACTATTCTCGCGGCC
GTTTTATCCTTCTGTTTCTTAAAGATGTCCAGTCACCGCAAATTTCCGGCAACAGATC
GATATCTTTGGCAACAAGAACACATGGATTTTGTCCATTATCTACTTGATGACATTCGGT
GCCTTCGCGGTTTTCGCCGCGCAGTTCGGTCTGATCATCAACAACAACCTTCGGCATCGCT
TCCCCGATGGCAGAGACTTATCCAGCTGAGATGCTTCACGCCGGTGTACGTTTCGCGTTT
CTTGGACCTTTGATTGGTGTCTTGGTGCCTGCTGCATGGGGTCCACTGTGTGACAGATTC
GGTGGAGCTATCTGGACCTTTGTCTGGTGGCATCGGAATGACTATCGCCACTGCAGCTGCC
GCAATCTTCTAAGCAGAGCGGAGACACCTGATGATTTCTGGCCATTCTGTGGTCCATG
CTTGGCCTGTTCTTCTTACCGGTCTGGGCAATGCTGGCACCTTCAAACAAATGCCCCATG
ATTTTGCCTAAACGCCAAGCAGGTGGCGTGATCGGCTGGACCGGTGCCATTGGTGCCTTC
GGCCCCCTTCATTGTCTGGTGTCTTGCTCTCCTTCACTCCAACCTGTGCGGTTCTTCTGGGGC
TGCGTGGTGTCTTTCATCATCGCCACCGCTTTGACCTGGATCTACTACGCCCCCGCGAAC
GCTCCATTCCCGGA

>RXA01303-downstream

TAAACCGAAAGGCCAATCCATGA

>RXA01307-upstream

TTCCCCAACCCGCATCCGCTACCCATACATCGGTGGCGTGCTAGTTGATATGTCCGCGAA
GCCAAGGAACGCCTGGGCGATCCG

>RXA01307

GTGCTGGCGTGGCGCGACATTGTAGAAACCCAGAAAAGCGCAAAGCATATGTATCCCAG
CGGGGCAAAGGTGGCCTCATCCGCGTTCAGTATGAGGAAGCCATGGAGATTGCTGCGGCA
GCCCATGTGTACACCATCCGCCAATACGGCCCCGACCGCATTTCATGGATTACCGTTATT
CCCGCAATGTGCGAGGTGTCTTACGGTGTGGTACTCGCTTCTTGAGATGATCGGCGGA
GTGGCGCTGTCTTCTACGATTGGTACGCCGACCTCCCACCAGCATCACCAAACTTTC
GGCGATCAAACCTGACGTTCGGGAATCTGGCGACTGGTACAACCTCCAGTACCTCATGATG
TGGGGTTTCCAACATTCCGGTGACCCGACGCTGACTCCCACTTCATGGTGGGAAGCCGC
TACAAGGGCACCAAGGTTGTTGTGGTTTCCCCGGATTTTCGCTGACTCCACCAAATTTGCT
GATGAATGGGCACGCATCCACCCTGGTACTGACGGCGCACTCGCCTTTGCCATGGGCCAT

GTGATCTTGAAGGAATTCCATGTTGACAAGAAGACGCCGTAATTTCATGGACTACATGCGC
AAATACACGGACTCTCCTTTCCCTCGTGGAAATTAGATGAGCACGGCGATGGCACCTACACC
CCAGGTAAATTCCCTCACTGCA

>RXA01308

GCCGCCACTCCAAATGCCACCCACCGTCTCCTTGTGCTGCAAAAAGATGGCTCAGTTGTA
GATCCCGGTGGCACTGTGCGGGACCGTTGGGGTGAAGAAGGCATGGGTAAAGTGAATCTG
CGCTTAGACGGCGTAGATCCAGTGATGACTATTGCAGATGTACAGACTGACACCGAAACT
GCGGAAGTCCTCTTCCCCCGCTTCGATCTCCAGCAACTGCCACCCAAGAAGGCCCAT
GGTGTGGCACCATCAGCCGGGGCGTTCACCATCACGTTGAATGGCCGAAAGTACACC
ACTGTCTTTGATGTGTTGCTCGCACACTACGGTGTGAACCGCGAAGAGCTCAACCTTCCT
GGTGAGTGGCCTAAGGATTTCCAGGATCCAGTCATGGGTACTCCTGCGTGGCAGGAAGAG
CTCACGGGTGTTCCCTGCTAATCAGGCGATTCTGTTGGGTGCGGAATTTGCTCAGAATGCT
GATGATTTCAAGGCCCGTTCAGATCATCATGGGTGCTGGTGTGAACCACTACTTCCAT
GCGGATTCTATTTATCGCACATTTCTGGCGCTGACCTCTATGTGTGGCACCCAAGGTGTT
AACGGTGGCGGTTGGGCTCACTACGTTGGTCAGGAGAACTCCGTCCAATGAATGGTTGG
GCACAGTATGCCTTTGCTACAGACTGGCAGCGTCCACCACGTCAGATGATCACCCTGGT
TTCTACTACCTCACCACGGATCAGTGGAGGTATGACAACACTCGTGCTAATCGTCTGGCT
TCCCCACTGGCTAATCGTGGCACCGTGGGTGACAAAATGACGGCGGATACCTTGGTGGAA
TCCATGAAACGTGGATGGATGCCGTCATTCGCCGAATTCACCGCAATCCCCCTCATCTTG
AGCCAGGAGGCGGAAGAAAAGGGCGTGTCTGTTTCTGACCATATTGTTTACGAGCTCACC
GATGGTGACTTGCAGTTTCGCTGCGAGGATCCGGATGCACCGGAAACTGGCCACGCATT
CTGCTTAACCTGGCGCACAAACCTAATGGGCTCTTCAGCTAAGGGCACGGAGTTTCTTG
CGCCATATGTTGGGTGTGGATTCTGATGCATCTGCTGAAAAAACGCGCCGGAGGATCGT
CCAAGTTCCATTGTGTGGAGGGATGAAGCTTCCGAAGGGAAGCTCGATTGATGCTGACC
ACGGAT

>RXA01309

ATTGCAGACCACGAAGGTACCCACATCAATTGGGACATGGTCAAAGAACGTTCCGCCGAG
GTGATCACCTCACCGGAGTGGACTGGTTCCAAGAAGGACGGACGTCGCTACACCGGTTT
TCCATCAACATTGAATACGACAAGCCGTGGCACACCCTGTCTGGTCGCATGCACTACTAC
CTCGACCACGATTGGTTTATTGATTACGGCGAGCAGTTGCCAATCTTTAGGCCACCGTTG
GACAAGATCCACATCAATGGTGAGGTGGGCCCTGGCCAGTCGGTCACAGGCACCGACGGC
GAACCAGAAGTAACCGTGCCTTATCTGACCACCCACAACAAGTGGTTCGATTCACTCGCAG
TACTACGACAATCTGCATGTGCTTTCTATTTCTCGTGGCGGCCAGGTGATCTGGATGTCC
AACAAGGATGCAGAGAACTCGGTATCGCTGACAACGATTGGATCGAGGCTTATAACCGC
AACGGCGTTGTTTCTGCTCGTGCGATTGTCTCCACCGCATTCCTGAAGGCACCGTGT
ATGAACCACGCGCAGGAACCCACCGTGGCACCCCGCTGAACGAGAAGTCTGGCAGGCGC
GGCGGAACCTACAACTCTTACTCGAATCATGATTAAACGGTCCATGTTGCCGGTGGC
TACGGCACT

>RXA01309-downstream

TAACCTATGGCTTAACTACATCG

>RXA01324-upstream

TCCTCAACCCAATGCTTGCCGGCATTGCGATGGCCTTCAGTTCAGTTTTCGTCGTCTCCA
ATTCCTTGCGTCTGCGAGGATTCAAAGCAAGGAGCAACTA

>RXA01324

ATGTCCAACAGCGAATGCCACACCCACGGTTACATCGAAGAAAAGCAGCGTTACCTCGCA
CGCCTCAAAAGAATCGAAGGCCAAACCCGAGGCATTACCGCATGATCGACGAGGAACAA
TACTGCATCGACATCTCAGCAGATCTCCGAGTGAATCCGCACTCAAAAACGTGGCG
TTCGGCCTCCTCGACGATCACCTCGCTCACTGTGTCAAAGAAGCAGCTGACCTCGGCGGC
GACGAACTCGACGCAAACTCAAAGAAGTTTCCGACGCCATCGCCCGCTTCAGTAAGGCC

>RXA01324-downstream

TAAACGGATCCGGTGGCATTGGA

>RXA01340-upstream

CAGAATACTTCCGTTGGTTTTCGCGAAGAAGCAGTGCGCCTGCCCGGCCGCTACGGACAGT
CACCTTCGGAATCGGTCACATCGCCGTCACCCGCGCACCC

>RXA01340

GTGGGACCAGTGCTGGCGATCACCCCATGGAATTTCCCATCGCCATGGCCACCCGCAAA
ATCGCCCCAGCCCTGGCCGCTGGTTGCCCGTGTGGTGAAACCTGCTTCCGAAACCCCA
CTGACCATGGTCAAAGTGGGGGAGATCATCGCCTCCGTCTTTGATACCTTTAATATCCCG
CAGGGCTTGGTCTCAATCATCACCACCCTCGAGATGCAGAGCTATCGGCAGAACTCATG
GCTGATCCTCGCTTGGCTAAAGTCACCTTCACTGGATCAACCAACGTGGGACGCATCCTG
GTCCGCCAATCCGCGGACCGACTGCTGCGCACCTCCATGGAACCTCGGCGGAAATGCAGCT
TTTGTATCGACGAAGCCGACAGCTCGACGAAGCCGTATCCGGTGCCATCGCCGCAAAA
CTCCGCAACGCCGCGCAAGTATGCATCGCAGCTAACCGTTTCTTGGTTTCATGAATCCCGC
GCTGCCGAATTCACCTCAAAGCTGGCGACAGCCATGCAGAACACTCCCATTTGGGCCGGTG
ATTTCTGCCCGCCAACGCGACCGGATCGCAGCACTAGTGGATGAAGCCATCACCGACGGC
GCCCCGCTCATCATCGGTGGGGAGGTCCCCGACGGCTCCGGCTTCTTCTATCCAGCCACC
ATCTTGGCCGATGTCCCTGCACAGTCACGGATTGTGCATGAGGAAATCTTCGGACCTGTG
GCCACCATTTGCCACTTTACCGACTTGGCCGAAGGCGTTGCACAAGCAAATTCACCGAA
TTCGGCCTCGCAGCCTACGGATTACAGCAACAATGTGAAAGCAACACAGTACATGGCGGAA
CACTTGAAGCCGGAATGGTTCGGAATCAACAGAGGCGCCATCTCTGACCCAGCAGCACCT
TTTGGCGGCATCGGACAATCCGGCTTCGGCAGAGAAGGCGGAACCGAAGGAATCGAAGAA
TATCTCTCCGTGCGTTACCTCGCTTTGCCG

>RXA01340-downstream

TGACACATGAGCTGTCCGGTGAA

>RXA01354-upstream

TCGGCGCCATGCGCCTTCCAAAAAGGCATTGCTTTTCGACGTCCCCCTACGCTTCGATTT
TGCAAAATTATTTAGGCAAGGCTACCTTTTGCTATGCAT

>RXA01354

ATGAAGATTAGCCGGCGCGCATTCCTCGGCACACTGCTCGGCGCCACCACCTTGCTGTA
ACTGCCTGCGCGCAATCCTCTCAAACCAAACTCCTCCGCTTCTCATCTTCTTCATCC
TCAGCGGAATCAAGCACCTCTTCATCCTCCTCCGATGAACAGCGCATCGTCGCCCTCAAC
ACCGGTCAGTTGGACAACCTCCTCCTTCTCGGCATCACCCAGTGGGCGTCGCCGCTGCA
AAAAACTCTGACCTGATCCCACAGTTCTCAAGGATCGCTTCGGTGACAGATGGACTTG
GACAGCATCGCCGACTGCGGTCTCCGCCAATCTCCAGACATCGAAGCCATCGCGAACCTC
AACCCACCCCTGATCTGCGCAAACCTCCCGCGCCGACGAAGAGGTCTCAACAACTCCGC
ACGATCGCCCCCGTGGTCACCGGCGAAGGTGGCGGTGAAAACCTGGAAGCAAGACCTCCTC
ACCATCGCAGGCGAGCAGGCGCAGAAAGGCTGAAACCCCTCTGAAATCATACGAG
GACTCAGCAGCCGAAATCGCCGCAAACCAGCCTGCGAACCACCAACCGTTTCTTCTG
CGCACCAAGATCAGGAATTCCAGATGTACGGCGCACAATCCATGGCCGGAACGGTTGCT
GCCGATTGCGGTTACGCCCGCCAGAAAACCAGCAGTTACCGACACGGCAGGTCAAGAC
CTCTCCGCTGAGCTCATTTGCCCAAGCTGATGCCGACTGGCTTTTCTACGGCATCAAAGAA
GGCAACATCAACCCTGAAGACACCCATTGTGGACTTCACTCAAAGCGGTTCAGTCCAAC
CAAGCAATCCAGTTGACGGCGATTCTTGGTACCTCAACGCATCCCTCGTGTGCGGTGAA
ATCATCCTCCAAGGCCTCAAAGACAACGTACCGTC

>RXA01354-downstream

TAAGCCGATTTAAGGGCCTCAAA

>RXA01358-upstream

GAGGGTAAACCTTATACTCCGATTGTTTTGATGTGGTGGCAATCGTTTTGGATCCGCAC
ACGGGGCGCCAGAGATCACTGTTTATGAGGATGTGGAAC

>RXA01358

ATGGCGCTCGGTAGAACTATATCCACTGCGCAATTAGGTGTGCAGGCAAAAATCGTTTCGT
GTGGAGGCTAATGTTGGCCAGGATTGCCTGGTACCTACATTGTTGGATTAGCAGATACT

GCCATTTTCAGAACTCTCGGGATCGTATTAAACTGCGGTGCAAAACAGTGGCTTGATGTGG
CCAAAGACCAAAGTGATCATTAACCTCTCGCCGGCTTCCATGCGTAAACAAGGTTTCGCAG
TGTGATCTCGCGATGACCGTTGCAGTTCTCGTTGCCATGGCTCTAACCCCAAAGCGAAG
TTTCATGCGCAGAACACGTTATTTCTGGGTGAGGTGGCGCTTGATGGAACCTTGCTCCCT
GTTACTGGAGTTCTTCCAGCGCTGTTGGCCGCGAAGGAGGAAGGTATTGGCAAGATTGTG
ATCCCGGAGGGAAATGCCCAAGAAGCAGGACTGGTTGAGGATCCTTCAGTCTTTTTTGGCA
CATTCCATCGACCAGGTCTTGCATGGCTTGATGGGGAAGAGGCGTTGCCTCAGCCTGGA
CTATTCAATGATGAAAATAGCCTCAAACCTGCCTGATATGCGTGATGTGGTGGGACAACCA
GAAGCTAGGTTTGTGTCAGAAAGTAGCTGCTGCCGGTGGTCACCACATGCTGATGATTGGC
CCTCCCGGTTCTGGAAAATCCATGATCGCCGAGCGGATTCCCAGCTTGCTTCCCGAACTG
TCGCCCCAACAAATGATCGAGGCGACGGCAGTGCAATCCGTTGTGGGGCGAACCTTTTCA
GGGCGGCTGTCGAGGGCTCCGTTTATTTCCCCACACCACAATGTCAGCAAGGCTGCTCTG
CTCGGAGGTGGCTCGGGATCTCCTCTTCCGGGTGCTATCAGCCTGGCGCATCATGGTGTG
TTGTTCTCGGATGAGGTTAGTGAGATTCCAGCGTCAATCCTTGATTCTTTGAGGATCTG
TTGGAATACGGCTCGATCCGCATCATCAGATCCCGCCATGATGTCACCTTCCCGCACAG
TTCCAGCTCATCCTCGCGGCCAATCCGTGTAGATGCGGTGCAGAACAGCCTCAAGAATGT
GTCTGTTCTGGCTCAGCTCGCGCGACGTACCTTAATAATCTTTCGGGTCCGTTGAGGGAT
CGCTTGGACATGGTTGTTGCCACCCACTCTAAAGGTGCAGTGCTGCGTAGTGATGACGTT
GAGGCATCTGCTCCCATTTGCTGATCGGGTGGCACAAGCTCGTGAGAGGGCAGCTTTCCGA
TGGCGCCGTTCTGGACTGGGAAATCTTGTTAATGCACACGTAGATCCACACTTCTTGCGG
AGGAATTTTGCCGCAACAGAAGACGCCATGGTGTACCTCGGCGCGTTCTTGCGGAAGGA
ACAATCTCCCAACGTGGCTGCGATCGGGCCATAAACTGGGTGGACCTTGTCGATTTG
GATGGGGAACAGCAGCCCAATCTTGACCATATTGCGCGAGCCATGGAGCTTCGGGGCACT
ACATACAGTGAGGTAGCAGCA

>RXA01358-downstream
TGATTGACTCCCGCTTGCTGGCA

>RXA01385-upstream
ATCACACTTTTCATTTCGAGTGATCTGAACTACATTTCTGGTTACTGTACGGAACACGC
TCCGTGAATGAGATAGGAAATCCCCTCGAAAGGACCAGAC

>RXA01385
ATGCAGTTTCATTATGAAGGATACGCAACCGGTGACCCAATGGAGATGCGCGCGGAAGGT
AGCGGAATCAACCGCCCGGACGATCTCCCCGAGGTGATGGATGTTCTCATCGTTGGTGCA
GGTCCGGCTGGCACCATCGCAGCGGCTCAGCTTTCCCGATTCCCCAATGTGACCACCCGC
CTCGTAGAGAGAAGCGACCGTCGCCTCGAACTAGCCAATGCAGATGGCGTGCACCTCCGA
ACCATTTGAACTTTCCAGGCATTTGGTTTCGCCCACGAGATCCTCGCCGAAGCTCATGAA
ATCACCGACATGGCGTTCTGGAAGCCGACCCGCAAAACCTCGTGAGATCATTCGCGAC
AACAGCACCCCGGAGCTGCCACAGCACATCAGTGAATTTCCGATGGCGTTGCTCACCCAG
ACCCGCATCATCGACCACTTCAACCGGTTTATGAAGAATCCCCAACAGGATGAAGCCT
GACTATGGATACGAGTTCTGTTGACTTTGAAGTAGAAGAAGACGCAGAAATATCCGTTAAT
GTCACCCCTCCGCGCACCAAGTGGCGAGCAAACTGGCGAATTGGTCACCGTCCGAACCAAG
TACCTGGTCCGGTGCCGATGGTGCACGAAGCCAAGTGCGCAAAATCACTGGGATACCGACTC
CAAGGTAAGCAGGCTAACACGCTTGGGGTGTGATGGATATTACGCGAACACCGAGTTT
CCCGACGTGCGCAAGAAGTGCACCATCAAATCTGATTCCGGGTGCGACCATCTTGCTCATC
CCACGTGAGGGTGGCTTCTTCCGTCTCTACGTTGACCTGGGCGAAGTACCTGATGAT
GGCAGCAAGGCTGTTCTGTGATACCCCACTCCAGGATGTCATCGACACCGCGAACCAAGATC
ATGGCTCCATTACCCCTCGACGTGAAAAACGTTGTGTGGAACCTCCATCTACGAGGTAGGC
CACCGCGTCGCAGACCATTTTCATGACCGTGTTCAGAAAAAACCTCGAGCGAACACCCA
CGCATTTTCATTGCTGGCGACGCTGCCACACCCACAGCGCTAAGGCTGGCCAGGGCATG
AACGTGTCCATGCAGGACGGATTCAACCTTGGCTGGAAGCTTGACATGTGGCCAGCGGA
AATAGCCACGCGAACTACTTCAGACCTACGCTGAAGAGCGCGAAGACATTGCCTACAAG
CTCATCGAGTACGACAAGAAGTGGTCAACACTCATGGCAAAGCCAAGCAGCGAAATGGGC
AGTGCCCAAGACCTTGAGGATTTCTACCGCGCAACTCTGAGTTCAATGCCGGCTACATG
ACCACTATCTCTCTTCTTCCATCACAATGGATGGCAGCAACCAAGATCTGGCAAAGGCG
TACCAATTTGGCCGACGCTTCAAGTCAGCGATGGTTGGTTCGAGTCTGCGACTTCACCGAA
ACACACCTCGGTACCAAGCAACAGCCGACGGAACGATGCGCGCATACGTTCTGCGAGGA
TCCGATGCACTTAACGGCGAGGGTTCTGAGCTAGACCGCTGGGCAGAAATGGGCAGAGGCG

AACCTTGACCCACGCTTGTGACGCCAAGGTGATTTACCAAAGCCCTTATACCGAGCTC
GACACCCGCCAGGTTCCATCCGTGTTCAAACCTGCAGTCGGGATCTTCGAACTGACCAAT
GTGGAAAACCTCCTTCGGTATCACCACGGACTCCGACATCTTTGATAGTCGCGAGATCTCC
CGCGATGGTGTGCTGGTGGTAGTCCGACCAGACCAATACGTTTCCGGAATCTTCCCCTC
ACTGATACCCAAGGGCTTGGCGAATTCCTCACCGGATACTTCCCCAAAATGAAAGGCGCA
CATCAGCTAATCAACGCGAAC

>RXA01385-downstream
TAAGGCACAGCTGTTAAAACAGT

>RXA01412-upstream
CGCCTTCTTTGCAGCTGAGAATTAACCTCACCTTGCCCTTATACCCCATAGGGGTATAGC
CTTGAGGGAGAGAGTACTTCACCTGAAAGGGGCCAGTGAC

>RXA01412
ATGGCATTAAAGAACTACACCGTTGAGGGCATGACCTGCGCACACTGCGTGGCATCGGTA
ACTGAAGAGGTAAGCGAAGTTAATGGCGTTAGCGCTGTTGACGTCCTCTAGAATCAGGA
AACGTCGCTGTCAGTGGCGAAGGTTTCAGCGATGCAGAGATCCAGGCTGCTGTAGAGGAA
GCCGGCTACAAGATCGTTGCCTCC

>RXA01412-downstream
TAAAGCACCCAAGAACATTTAAA

>RXA01426-upstream
AAAAAGCACCATTCGGCAGCCAACACTCAAGCTTCTTAAGTTGAGTCGTTATAGTTGAGT
GTTGTACCGCTCGATATCTTGCCCGAAGGGGACTTTTTTC

>RXA01426
ATGACCACGCCTCCAGCAGCCGCTGAAATTTTCGGGGACAACCTCGAAAAAGCCATTGCA
TATCATGAATCTTTGGCAACAGATGGATCCGTCCGCGGATTCATCGGCCCCCGTGAAGTT
CCCCGCCTGTGGGATCGCCACATTTCTAAACTGTGGTGTATCGGCGAAGCTATGGATGAG
GGCATCTCTGTTGCAGATATTGGTTCTGGTGCGGGACTGCCAGGAATTCCTCTTGCTATC
GCACGCCCAGATCTCAACATCACTCTCATTGAGCCATTGCTCAAGCGTTCGGTGTACCTC
AACGAGGTAAAAGAAGCCCTGAACCTGGACAATGTCACCGTCGTTGCTGGTGTGCTGAG
GAAAAAGTGGTGCAGCAAGCAGGTCGGATTGGTGCATATTGTCACCTCCCGAGCTGTTGCT
CCACTGGGCAAGCTAGCGACCTGGTCTGTTGCCGCTGGTGAATAATCGGTGGACGCATGGTG
GCCATGAAAGGCTCCAGCGTTGAGGAAGAAATTGAGCGTGACGCCAAGGAAATCCGCAAG
GCTGGCGGCACTGACATTAAGGTTTATACCGTGGGTGAGGCGCTGTTGAGCGAGCCACA
ACACTTATTTCAATCCGCAGGGAAAAAG

>RXA01426-downstream
TAACCATCCACTTCGGTGGGAATG

>RXA01427-upstream
CACTTCGGTGGAATGGGTACAGCGTTAAGCACTAATGTGGAATCGATGACGTGTGCATGA
AGAAATTCGATGCACAGGAAGATAGGGATGGTTGACGTCG

>RXA01427
ATGGAAGACACTACTTGGAAGACACACCAATTGCTGCGGCGGCGCGTCTGTCAGCTCAG
GTGATGACACCCAACCTCCCTGACGTTGCCGAAACCTAAAGAACCACGCCTAATTACCATC
GCCAACCAAAAAGGCGGCGTTGGTAAAACCACTCCACGGTGAATTTGGCTGCGTCTTTA
GCAATTCATGGGCTTAAAGTTCTCGTCGTGGATTGGATCCGCAGGGAAATGCGTCGACA
GCGTTGGGTGTGAGCACCGCTCTGGAACCTTGTATCTTATGAACTACTGATCGGTGAA
TGCACTGCTGATGAAGCAATGCAGCCATCCACAGCTAACGAAAACCTCTTCTGCATTCCA
GCAACCCTGGATCTTGCTGGCGCAGAAATTGAATTGGTCAGCTTGGTCCGCCGCGAATAC
CGTTTGGCGGATGCGTTGGGCCGTGAGTTCATTGACAAGCACGATTTTGATTACATGATC
ATTGACTGCCACCGTCTTTGGGTCTGCTCACCATTAAACGCCATGACCGCGGTGAATGAA
GTGCTCATTCGATCCAGTGTGAGTACTACGCTCTGGAGGGCGTGGGCCAGCTACTGAAC

AACATCACTATGTTGCGTCAGCACCTGAACCGCCAGCTGCATATTTCCGCGATCTTGCTG
 ACCATGTATGACGCCCCGACCAACCTCGCAGAACAGGTGGCCACAGAGGTTAATGATCAC
 TTCGGTGACGTGGTGTGGGTAACAAGATTCCACGTTCAAGGTGTCTGAAGCTCCT
 GGCTATGGGCAGACTGTCATTGAATATGATCCAGGTTCCAGGGGCGCCATGGCGTATTTG
 GATGCTGCTAAAGAATTGGCCACTCGTGGCGATTACTTGCTTAGCGATGAATCCGGTCCG
 ATCGGCCTAAAACCTGCGAAA

>RXA01427-downstream
 TAGCAGTAAACTTCTTTGAATAC

>RXA01428-upstream
 GCGATGAATCCGGTCCGATCGGCCTAAAACCTGCGAAATAGCAGTAAACTTCTTTGAATA
 CGTTAATTGTTGTGCTGTACGAAAGGTGCGTCTAAGAGCG

>RXA01428
 ATGGCTCAGAACAAGGGTTCCGACAAAGTCCCAGACGGAAGCGTAAGGGCGGTCTGGGG
 CGCGGTCTGGCCGCACTTATTCCTCAGGACCAAGTAATTCCCCAGGTCTTGGTGGCGGT
 GCGGCTGACATCATTTTGGGCGGTACCGTGGGTGCGCGTACTGCTGCAGCTCCCAAGCGT
 GAGTCCACACCAGCAGCTCCTGCACCTGAGGCTCCTGCGCAGGCCGCTCCACAACACACT
 GAGGCCACAAAGCCAGAGGTAGTTCCAGAGCCAGCAGCTCCTGCTCCAACGCAGTCAGCA
 CAGCAGGAAGCGCCGAGGCACAGCCAGCACAGCAGTCTGAGTTCCGGCGCATCCTACCTT
 GAGATCCCGATCGAGCAGATCCGCCCCAACCCGAGCAGCCTCGCCATGAGTTTGATCCG
 CAGGCACCTGACGAGTTGGTGCATTCGATCAGCGAGTTCGGCCTCATGCAGCCGATCGTG
 GTGCGCAGGTCCGAGGATGGCTATGAGCTCATGAGGTGAGCGTCGTTGGCGTGATCC
 AAGCGAGCTGGCCTTGAGGTTATCCCGGCGATTGTCCGTGAAACTGAAGACAGCGCGATG
 CTGCGCGACGCCCTTTTGGAAAATATCCACAGGGTGCAGCTGAATCCTTTGGAAGAGGCA
 GCCGCTACAGCAGTTGCTGGAGGAGTTCGGTGTCAACCCAGGCAGAGCTGGCCGATAAG
 CTGGGCCGTTCCCGTCCGGTAATCACCATAATGATTCTGCTGCTGGGCCCTCCAGTCAAC
 GTGCAGACCAAGGTGGCAGCCGGTGTGCTGTCTGCAGGCCATGCACGCGCATTGCTGGGG
 CTCAAGGCCGGCGAGGATGCTCAGGACACCCTGGCGACCCGAATCATCGCTGAGGGCCTG
 TCTGTGCGTGCTACTGAGGAATTGGTGTGCTGCACAACCGTGGTGATCAGGATGAGGAG
 AAGAAGCCACGCGAAAAGGCTGCAACTCCTGAGGTCTTTACCCGTGCGGCTGAGTCTTG
 GCGGATAAATTTGGATACCAAGGTCTCGGTGATGATGGGTAAAGAAGAAGGGCAAGCTCGT
 GTGGAATTCGGCGACAAGGATGATTTGAGCGCATCATGTCCTTGATCCAGGGCCAA

>RXA01428-downstream
 TAATTTTAAGTTTGGCGCCATGC

>RXA01430-upstream
 GAAAACTAGAGAAGCACCTCTAGCTGGTATTCTTACTGCAGTCACGTGGATGAACTATA
 TCCATTGATAATTTTGAACATGAATGATGGAAGGAGCAGG

>RXA01430
 GTGTCTAAAGTCTGAGAGTTGGCGATCGCAGCCCGCGCGTGGCAGAAGTGCGCACTACG
 CTCGCTCGCCTCGGTGTGATTGAAGGCTATTCCAGGGAGATGTCTGCAAAGACAGAAATCC
 CAGAAGTTCCACGAAGAAGAGACGCTTTTCGACGAAGAACTCAGCCTCAGCATCAAGTCA
 TTCCAGCAAGCTCGAGGAGTCGTTCCCTCCGGGCTTATTGACGACCCACCCCTGCGCGCA
 ATCCGCGAAGCCTCCTACACCTGGGAACCCGCGTGCTGGCCTACCAGCCCGGCAACCAG
 CTTGTTGGTGACGACGTTGTAGAAATCCAATCCCATCTCCAAGAGCTCGGCTTCTACGCC
 GACCGTGTGGATGGACATTTTGGCGAGCTCACACACAAAGCTGTGATGAACTACCAACTC
 AACTACGGCATGCAGGTAGACGGCATCTGTGGCCCTGACACCATCCGTGCGCTGTCCCGA
 CTTGGTCTGCGCATCAAGGGTGGCTCTGCTCAAGCTATCCGTGAACGCGAACGCATGCGC
 AATGCAGGCCCCACGTCTTGCTGGCAAGCGTGTGGTCATTGATCCTGCGCTTGGGGGCTCC
 AACAAGGGTCAGATCGTGAAAGGCCCTACGGTGAGATCTCTGAGGAAGAAATCCTCTGG
 GATTTGGCCACCCGCTGGAAGGTGCGATGATCGCAACAGGCATGGAAACCATTCTGTGCG
 CGCCCGCATGATGATCCAGCAGCCGTGATCGCGCGTGCATCGCGAATGCTTTCGGC
 GCTGACCTCATGCTGAGCCTGCACTGCGATTCTTACCCGAATGAAAAAGCTAACGGCGTG
 GCCAGCTTCTACTTCGGTTCGGAACGGCACCAACTCCTTGACCGGTGAAACGCTCTCC
 GCGTACATCCAAAAGAGATCGTTGCCCGCACCCCACTGAACAACTGTGGCAGCCATGCC

CGTACCTGGGATCTGCTGCGCCTCACGCGCATGCCCATGGTGGAAAGTTGTCACCGGTTAC
CTCACCAACCCCGATGACCTGGCAGTTCTGACTGATCCACAAATGCGTGATCACATTGCC
GAAGCCATCGTTGTCGCCGTCAAGCGCCTGTACCTCCTTGATGAGGAAGCACAGCCCAAG
ACCGGAACCTTCAAGTTCTCTGAGCTGTTGCAATCAGAGCAGGCTGGC

>RXA01430-downstream
TAAATCGCGCCCATCTCTTGAAG

>RXA01435
CCTCTTGACCTAGGCTTTACCACCGAAGCACGCCAATGGCTCGAAAACCCTAGAGGGACGC
ATCGGCGACGACTGGCGACACAAATGGTTCTCCGGAATCACCTACCTCCTCCTCGACGAC
TACGCCACCGCCCAAGTATTCTTCAACCACGTCCTGACCATCCTGCCCGCGAAGCCGCT
CCTAAACTAGCCCTCGCAGCTGTTGACGAACATCCTCCAACAAATCGGCGCCGAATCC
ACCGCCTATCTCACCCAGACATCGTCTCTGCAACCGCGACCCCTCAGCAAAGATTTTCGAA
GACCTCGACGCCCTCGCCTTCAATCACTCAGCGACACCTGGTCCCACATCTCCAGCGAC
CCACACGTAGTCCGCTTCCATTCACTGCGCCTCTACGCACTTGCTGTTGGCAACCAACCCC
ACCACCGTGTCTCCGCTTCCGCTCGGCGCTCGCCCGCCAACTCATGGCCGAAAACCAATCGAA
CTCGCAGTCCAAGCCCTAGACAAACTCCCCCAATCATCCACCCACTACCGAATGGCCACC
CTCACCACCATCTTGTGCTGGTCTGAGTCCAATTTGAGTGAATCCCGCATCCGACGGGCT
GCCCCCGGACTCACCGAAATCCCCACAAACGAACCCCGCTTCAACCAAAATCAAAATTGCC
ATCATGTGCGCAGGCCTCAGCTGGCTTCGAGAGCGAAAACCTCAAAGCTTCCGCTCCGCG
AACCTTTGTTTGAATACCCGTTCTCCCAAAAGGCGCTGCGCACCGGCATCTCCGAGGCA
CTCCGCATTCAGGCACGTTCTGCAACCGTTCCCGCACCAACCGTTACGCACTTGTGGATATG
GCGAATGCCGTGCGGCCACTGAGTTGGTTC

>RXA01435-downstream
TAGCTGTTTTGACTTGGGGCTAT

>RXA01437-upstream
ACTATGTAAGAAATCACAACTCCCCTCATTAGTGCCAGGAGGCACAAGCCTGAAGTGTC
ATCAATGAGAAGGTTCAAGGCTGAAATTAGAAAGGCGATGT

>RXA01437
ATGTCTGACACACCGACCTCAGCTCTGATCACCACGGTCAACCGCAGCTTCGATGGATTTC
GATTTGGAAGAAGTAGCAGCAGACCTTGGAGTTCGGCTCACCTACCTGCCCGACGAAGAA
CTAGAAGTATCCAAAGTTCTCGCGGCGGACCTCCTCGCTGAGGGGGCCAGCTCTCATCATC
GGTGTAGGAAACACGTTTTTTCGACGCCCAGGTGCGCGCTGCCCTCGGCGTCCCAGTGCTA
CTGCTGGTAGACAAGCAAGGCAAGCACGTTGCTCTTGCTCGCACCCAGGTAAACAATGCC
GGCGCAGTTGTTGACGACGATTTACCGCTGAACAAGAGCCAATGCCGGATAAGCTGCGC
AAGGCTGTGCGCAACCACAGCAACCTCGAACCAGTCATGAGCGCCGAACCTCTTTGAAAAC
TGGCTGCTCAAGCGCGCACGCGCAGAGCACTCCACATTTGTGCTGCCAGAAGGTGACGAC
GACCGCATCTTGATGGCTGCCACCAGCTGCTTGATCAAGACATCTGTGACATCACGATC
CTGGGCGATCCAGTAAAGATCAAGGAGCGCGCTACCGAATTGGCCTGCACCTTAACACT
GCATACCTGGTCAATCCGCTGACAGATCCTCGCCTGGAGGAATTCGCCGAACAATTCGCG
GAGCTGCGCAAGTCAAAGAGCGTCACTATCGATGAAGCCCGCGAAATCATGAAGGATATT
TCCTACTTCGGCACCATGATGGTCCACAACGGCGACGCCGACGGAATGGTATCCGGTGCA
GCAACACACACCGCACACACCATTAAGCCAAGCTTCCAGATCATCAAACTGTTCCAGAA
GCATCCGTCGTTTTCTTCCATCTTCTCATGGTGCTGCGCGGGCGACTGTGGGCATTTCGGC
GACTGTGCTGTTAACC CGAACCCAACTGCTGAACAGCTTGGTGAAATCGCCGTTGTGTCA
GCAAAAACCTGCAGCACAATTTGGCATTGATCCTCGCGTAGCCATCTGTCTACTCCACT
GGCAACTCCGGCGGAGGCTCAGATGTGGATCGCGCCATCGACGCTCTTGCAAGAAGCACGC
CGACTTAACCCAGAATATGCGTCGATGGACCACTCAGTTCGACGCCGCCGTCGACCCG
GGTGTGGCGCGCAAGAAGATGCCAGACTCTGACGTCGCTGGCCAGGCAAATGTGTTTATC
TTCCCTGACCTGGAAGCCGGAACATCGGCTACAAAACCTGCACAACGCACCGGTACGCC
CTGGCAGTTGGTCCGATTCTGCAGGGCCTAAACAAACAGTCAACGACCTTTCCCGTGGC
GCAACAGTCCCTGACATCGTCAACACAGTAGCCATCACAGCAATTCAGGCAGGAGGACGC
AGC

>RXA01437-downstream

TAATGGCATTGGCACTTGTTTTG

>RXA01458-upstream

GCCATTAGAGTTCATATTTACCAATCTACAAGGCAACTATTTCTATTGCTACGATCCGA
ACAACGCTGTAAGCGAACACAGGTTGTAGGGTGGATATTC

>RXA01458

GTGAATCGCCGAATCAAGACTCTGACGTGGGGTGCTATCCCTTTGGTGCTGCTGGCATCG
TTGGTAAGCATTGACCATATTCGGGAACAAACATCAACTTGAGCGTGCCTTATGCCGCT
GAAGGCCAGGTCTACGATCAATACGCTTGGTCAGGTCGACGGCGAGGATGTTGTGTCC
ATCAGTAGTGCTGATCTGGATGAGACCGAAGGTAACCTGAACATGACCACTGTGTGCGTT
CGTTCCGGCATGACATTGTGCGCAGGTAATTTCCCGATGGCTGTTTACCGATGACACAATC
GTTCCCATCGAGCAGGTTTCCCTCCCGGCCAATCCACCGAGGAAGTCGAAGAATCCAAC
CGCACCGCGTTTCATCTCTCGGAGTCTTCCGCAACGATCGCCGCGATGAATTACCTCAAC
ATTCCCGTCGAAGTTGAAGTTGCAGAAGTCCTCACCAGACAGCGCCGCAACCGGAATTTTC
GAACCCGGCGACAACTTCTCAGCATCGACGGCACCGCAATCTCCACTCCCGGCGATGCA
CAAACCATCGTGCGATCGAAAGCTCCCGGCGATGAGATCACGATTTCTTACGAGAGAAAC
GATGCGGAATCTCAAGCAACCATCACTTTGAGGGAACACCCGGATGATTCTTCGGTGGCG
TTGTTGGGTATTTCAATGTTGTGCGGTGCCTTCGAGCGCGATTGAGGTTGATTACAATTG
GAAGATATCGGTGGTCCGAGCGCTGGCATGATGTTTTCGTTGGCGGTGTCGATAAGCTT
TCGCCTGGCGCGCTGAATGGTGGCAAGTTTGTGCTGGCACTGGCACCATCGCGGAGGAC
GGGTGCGTGGGCGCGATTGGCGGTATTGCGCACAAGGTGCGCGCTGCGGAGGACGCGGGC
GCGGAAGTGTTTTTGAGCCCTGCGGACAATTGCGCGGAGGCGATGAGTGCGAAGCCTCAG
GATATGACGATCTTGAAGGTGGATTGTTGTCTCAGGCAATCGATCAGATGGCTGCCTAC
AACGAGGGCTCTGATTTCCAGACGTGTGGC

>RXA01458-downstream

TAGTTTTTAGACGCTGAGGTTTC

>RXA01461-upstream

TCGACTATGACGAGACCCGTGAAACTTCGCGCTTGGTTACAAGTTCGACATCGTCCTTC
GTGGCCGCAACGCCACCCCATTTGAGTAAAGGGTTTTGCA

>RXA01461

ATGATTGATACAGGGAAGAACGGCGAGTTCCGCTACGAGCAGTCGAATATCATCGATCAG
AACGAAGCCGAGTTCGGCATCACTCCTTCACAGACCGTGGGCCCTTACGTCCACATCGGT
TTGACCCTTGAAGGTGCGGAGCATCTCGTGGAGCCAGGTTCCGAAGCGCGGTGTCTTTT
ACTGTTTCCGCAACTGATGGCAACGGCGACCCCATCGCGGATGCCATGTTTGAAGTGTGG
CAGGCCGATCCAGAGGGCATCCACAACCTCTGATTTGGATCCAAACCGCACAGCACCAGCA
ACCGCAGATGGCTTCCGCGGGCTTGGTTCGCGCATGGCAAACGCGCAGGGTGAGGCAACG
TTCACCACTTTGGTTCCGGGAGCATTTCGAGATGAGGCACCACACTTCAAGGTTGGTGTG
TTCGCCCCGTGGCATGCTGGAGCGTCTGTACACTCGCGCA

>RXA01462-upstream

TTGCGCGCGATCTGACATGTTGCCCCGCGAACTACTTGTCAACGGCCTCAATCATCCC
TACTTTGAGATCTATATCACTAGACGCAGAAAGGTCTCGC

>RXA01462

ATGGACATCCCACACTTCGCCCCGACGGGAGGCGAATACTCCCCACTGCATTCCCGGAG
TACCGGACCACCATCAAGCGCAACCCAAGCAACGATCTCATCATGGTTCCCTAGTCGCCTC
GGCGAGTCCACGGGACCTGTCTTCGGCGACCGCGACTTGGGAGACATCGACAACGACATG
ACCAAGGTGAACGGTGGCGAGGCTATCGGCCAGCGCATCTTCGTTACAGGCCGTGTCTCTC
GGTTTCGATGGCAAGCCAGTTCCGCACACCTTGGTCGAGGCGTGGCAGGCAAACGCCGCA
GGCCGTTACCGCCACAAGAATGACTCCTGGCCAGCGCCACTGGATCCACACTTCAACGGT
GTTGCACGTACTCTACCGACAAGGACGGCCAGTACCACTTCTGGACCGTTATGCCAGGT
AATTACCCCTTGGGGTAACCAACCAACGCATGGCGCCCGGCGCACATTCACTTCTCGCTC
TATGGTCGTGAGTTTACGGAGCGTCTGGTCACCCAGATGTACTTCCCGAACGATCCATTG
TTCTTCCAGGATCCGATCTACAACGCGGTGCCAAAGGGTGCACGTGAGCGCATGATCGCA

ACGTTCTGACTATGACGAGACCCGTGAAAACCTTCGCGCTTGGTTACAAGTTTCGACATCGTC
CTTCGTGGCCGCAACGCCACCCCATTTGAG

>RXA01462-downstream
TAAAGGGTTTTGCAATGATTGAT

>RXA01464-upstream
CAAGGACGGCCAGGTTGCTATTCCACAAGGCCAGGTTTGGGCGTCGATGTGGACATGGA
CAAAGTCAACTTCTACACCCGTAAATAAGGAGAATTATCG

>RXA01464
ATGCTGTTTCTAGCACGCATGGACGTCGTCTTCCCTGATTCCATGGACGCCGATGTGATG
GCAGATTTCCAGGCTAAGGAAAAGGCCTACTCCGGAGACCTGCAATCCCGTGGAATCATG
AAAGCAATCTGGCGAGTCGTGCGCGAGTATGCAAACCTACTCCATTTTCGATGTGATGAC
CACGACGAGCTGCATGCAATTCTTAGTGGCTTTCGATGTTCAAATACATGAATGTCAAG
ATCACTCCACTGGCAAAACACCCCAATGCTCTGGAGTATTACCTCAAGGGA

>RXA01464-downstream
TAGTTGAGGTTCTAACCGCTCTA

>RXA01465-upstream
GAGACTGGCGAGGATGGTAACCACGTTCACTACCCATTTCGTCTGGATAAGGAAGACTAG
TTTTTCTACCTAGCTAGCATTGAAGTCCCGACCACATCTT

>RXA01465
GTGGCGGGACTTTTCCCACTTAACCAGAAAGCCATAGAAAAATTGTCTGATTTAACCATC
CAAAAAGTCGAATCCCGTATCCTCGACGTTCCCCTCATTGCCCCACACGGCTTCGCAACT
ACCACCTCCACTGAGCAGCACATTCTGCTGGTCAGCGTGCACCTAGAAAACGGTGTCTATC
GGCTACGGTGAGGGCGTTGTGCCCCGGCGGTCCATGGTGGGGCGGCGAGTCGGTTGAGACC
ATGAAGGCGCTTGTGCGACGGCTACCTCGCCCCAGTGCTCATCGGCCGTGCTGTCTCCGAG
CTTGTCAGGAATTATGGCAGACCTTGAGCGTGTTGTTGCACGTGCGCGTTATGCCAAGGCG
GCTGTTGACGTGCGCAATGCATGATGCCTGGGCACGCAGCCTCAATGTGCCCGTCCGCGAC
CTGCTTGGTGGCACCGTGCGCGACAAGGTGGATGTACCTGGGCGCTGGGCGTTTTGCCG
CTTGATGTTGCGGTGGCGGAAATTGAAGAGCGCATCGAGGAGTTTGGTAACCGTTCCTTC
AAGTTGAAGATGGGTGCTGGCGATCCTGCGGAAGATACTCGCCGTGTAGCAGAATTGGCG
CGCGAAGTTGGCGACCGCGTTTCTCTGCGCATTGATATTAACGCACGTTGGGATCGCCGC
ACCGCTCTGCATTACTTGCCGATTCTCGCGGAGGCTGGCGTCGAGCTGTTTCGAGCAGCCC
ACCCCGGCCGACGACCTGGAAACCCTGCGCGAAATCACCCGCCGACCAACGTTTCGGTC
ATGGCAGATGAATCCGTGTGGACCCAGCTGAAGCTCTCGCGGTGGTGAAAGCCCAGGCT
GCGGATGTTATCGCACTGAAAACCACTAAGCACGGTGGTCTGCTGGAATCCAAGAAGATC
GCCGCTATCGCCGAAGCCGCGGGCTGGCCTGCCATGGTGCAACCAAGTCTGGAAGGTCCA
ATCGGCACCGCAGCATCCCTGCAGTTTGGCGCATCCACCAAGGCGATCTCCTACGGTACA
GAACTGTTTCGGACCGCAGTTGCTCAAAGATACCTATATTGTCCAAGAATTTGAGTACAAG
GACGGCCAGGTTGCTATTCCACAAGGCCAGGTTTGGGCGTCGATGTGGACATGGACAAA
GTCAACTTCTACACCCGTAAA

>RXA01465-downstream
TAAGGAGAATTATCGATGCTGTT

>RXA01466-upstream
AATCCATGATCCCAAACCTACCTCAAAGCGCTTGTAGGCTAAGACTTATGGATACACAACG
CGGCTCATTGCGGGGAAAAGCTCATAAAGCAAGGCTAAAG

>RXA01466
ATGACGCCAAATGGTCGCAGGCAACTCCTCCTGGAGCGTGGCGCAGCATTTAGCAAAAAC
CGTACCCCGGGTCTAAAACACGTCGACCGCCACACCATCGTGGACTCCGACGGCCTCAGC
ATCCACACGTACATGGTTGGCCATGCCGAAAATGCCACGGCAACGGTCGTGTTTCATCCAC
GGCTTACCCCTCGCCGCCGAAGTGATTACATGCAGGTCGACTACCTACAAACCTTTTAC

CCAAATATTAAAAGCGTGCTTATCGACGCCCGCGGCCACGGCGCCACCGGCCAGATCCGC
 CCAGAGCTCTGCACCATCGAAGGAACAGCGAACGATGTTCTCGAGCCATCCACGAACAC
 GCACCGACCGGCGCGCTCATTTTGGTTGGGCATTCCCTCGGCGGACTCACGGCACTTAAC
 CTGGTTAAACGGGCAGATCACTCACTTCGGAAGAGGATCGTCGGCATGGTTCTAGTCGCC
 ACATCGATCGAATCATTATCCACCCAAGGTCTACCACAAGTCTGGCATCACCCCTTGCC
 GACAACATCAAAAACGCCGTCGAAGCAGCCCCAACGATGCCCCAAAATTCGCCAATAC
 GCCACCACATTTCTAGCCCCCACCCTGGCCACCGCAGTCTTCCAACGAGACACAAACGAT
 GAAGTCATCGATTTCCACGCGCCCATGATCCACGAAACCCCTTGGATACCTTCGTGGT
 TTCTTCGACGACCTTCAAGAACACGACGAACCTCGATGCCGCACCAACATTGGAAGGCCTC
 AAAGGCTACGTCTTTGCCGGCGAATTAGATGATGTACCCCA

>RXA01477-upstream

TAATTTGAATTAAGCCCTCTTCAATTTTCCGCTTTTCGCTGCGAGGTGTGCCAATGTGGCG
 CATTATTTAATGCATACTCGGCGCTATTTTGAGGAGCCTC

>RXA01477

ATGCCACAGTTAAGCAGACGCCAGTTCTTGCAGACAACCGCCGTTACTGCAGGTCTAGCC
 ACTTTTTCGCGGCACACCTGCACGCGCTGAAGAACGCCAATTCCAGCATGGCGTGGCTTCC
 GGGGACCCACCGCAACCTCTGCCATTTTGTGGACTCGGCTGACCCCAATTCCCGACGCC
 ACACCTGGAAGTGGCCTTGGCCCCGACTCTCCTGTACCTGGGAAGTCTCCCCACTCCT
 GATTTTCGCCAGCATCACGCGCTCGGGAACCGTAATCACCTCCGAGCAAGCGATCACACC
 GTCCACGCGCACGCCACGGGTTTGAGCCCATCCACCCGCTATTTCTACCGCTTCATCTCC
 TCCACCGGCGAGGTCTCCCCCTGTGGGGCGCACGAAACAACATCGCTTGTGACGCTCCC
 CTCCCGCACCTTCGCTTTGCCCTTGCCTGCTGTGCCAATTGGGAGGCAGGATTTTTTGGC
 GCCTACGGCGACATCGCCCGGCGCGCTGACGCCGGCGAATTGGAGATGTTGATTTTTTTG
 GGTGATTACATCTACGAGTACGCCACCGGTATGTTCCGCCGAAAGGACGGTGTGGTGCGC
 CCGCATCAGCCTCTTCATGAAACCATCACGTTGGAGCACTACCGCACTCGTTATGGCCAT
 TACCGCAGTGACAATCACTTGCAGGCAGCGCATGCGGCGTTCGCGTGGATTGTATGTGG
 GATGACCATGAGTCGGCCAACAACCTCTAATCGTGAGGGCGCGCAGAATCATTCCGCTGAT
 GAGGGTTCGTGGGTGGATCGTCAAAATGCTGCTCGGCAGGTCTTTTGGAGTGGATGCCG
 ATCCGCCAGGAGGACACGCTCTATCGTTCTTCACTTTTGGTGACCTCGCCACGCTGTCA
 CTTCTTGATCTTCGAAGTTTCAGAGATCCAGCACCCCTCCAGCAACAGTGGCTGGAGGGT
 CAACGTGCGGACACCATGATGGGGTTCGAGCAGTTTGAAGTGGCTGAAATCCAACGTGGAA
 CACACCACACGACGTGGAATATCATCGGCAGCTCAGTGATGTTTGGCCCCATGGCAATT
 ACCGGGCGAGCCTCTTTTCCAGATCCCTGAACCTATTCCCGCCAATTTGGATCAGTGGGAC
 GGCTACTCCCGTGAGCGCGACCGACTCCTAGCTGTACTTGCCGATTTCCGCCACTCCAACG
 CTTTTTCTATCTGGCGATATCCACTCCGAATGGGCAAACGCCATCCGGTTTAAATGGTCTGA
 GAAATCGGTGTCGAGGCAGTATGCAGCTCCATCACCTCAGCTAATGTCAACGACTTCGCC
 AAGTCCCTGAGGACAATCCGGTCTCCCTGCAAGCGGAACAAGTAATCCGAGCCAACAGT
 TCGCATGTGCGCCACGTTGATCTTGACGCCCACGGCTACGCCACGGTGAATCTCACCCAA
 GATGGCGCGCACATGGTCTGGCACCGCGTCGCCGATCTCTCCCTTCCGGACTCAGAAGTT
 GCTCCGGCAATTGCACCTGAGTGGAACAGGCGTCGGATTCACTACT

>RXA01477-downstream

TGAGCTGCTGATTTGTAGGTTTT

>RXA01498-upstream

CAGTGGACAACCTACTTGGCGGGTCTTAAATCAGCTGTGAAGGATTCTGCATAAGCTGGGC
 ACCACACGAGCATCAGAACGCGAAACGAAGGTAAAAGCCC

>RXA01498

ATGATCAAACGTCTTCCTTTAGGTCCGCTGCCTAAAGAACTTCATCAGACTCTGCTTGAT
 CTGACCGCAAATGCCCAAGATGCGGCGAAAGTGGAGGTTATAGCGCCATTTACTGGCGAG
 ACCCTCGGATTTGGTTTTGATGGTGATGAGCAAGACGTCGAGCATGCTTTTGCACCTTCA
 AGGGCAGCCCAGAAAAAGTGGGTGCACACCACGGCAGTGGAAACGGAAGAAGATCTTCCTG
 AAGGTTTCATGATCTGGTATTGAAAAACCGTGAGCTGCTCATGGACATCGTGCAGTTGGAA
 ACAGGCAAAAATCGAGCATCGGCTGCCGATGAGGTGTTGGACGTTGCGATCACACCCGCG
 TTCTACGCAAACAATGCAGGAAAGTTTTTAAATGACAAGAAACGCCCCGGCGCGCTTCG
 ATCATCACGAAAAACACACAACAGTATGTGCCCAAGGGAGTGGTCGGGCAGATCACGCCG

TGGAATTACCTTTAACTTTGGGAGTATCTGATGCTGTTCCGGCGCTGCTGGCAGGAAAC
GCAGTGGTGGCTAAACCTGACCTCGCGACACCTTTCTCCTGCTTGATCATGGTGCACCTG
CTCATTGAAGCCGGTCTGCCGCGTGATTGATGCAGGTTGTACCCGGCCCTGGCGATATT
GTTGGCGGTGCGATTGCAGCTCAGTGTGATTTCCCTCATGTTCACTGGATCCACGGCCACG
GGCCGGATCTTGGGTGCGACAATGGGTGAGCGTTTGGTGGGTTTCTCTGCGGAATTAGGC
GGAAAGAACCCTCTTATTGTGGCCAAGGATGCAGATCTGGACAAGGTGGAAGCTGAGCTT
CCGCAGGCGTGTTCCTCAACTCGGGGCAATTGTGTGTCTCCACTGAACGTATTTATGTC
GAGGAAGACGTGTACGAGGAGGTGATTGCACGGTTTAGCAAGGCGGCGAAAGCCATGTCC
ATTGGTGCCGGATTTGAGTGGAAATATGAGATGGGTTTCGTTGATCAATCACGCGCAGCTG
GATCGGGTGAGCACCTTTGTTGATCAGGCTAAAGCTGCGGGCGCCACGGTGCTGTGCGGT
GGCAAGTCACGCCCTGATATTGGTCCCTTCTTCTATGAGCCACGGTATTGGCGGATGTC
CCAGAGGGCACCCCACTGCTCACGGAGGAAGTCTTCGGGCGGGTGGTGTTCATCGAAAAG
GTAGCCACACTGGAAGAAGCCGTCGATAAGGCAAATGGCAGGCCCTACGGCCTGAATGCG
TCCGCTTTTGGGTGCTCGGAAACCGCAATCTTGTTCAGGCCAGCTGGAAGCTGGCGGT
ATCGGTATTAATGATGGCTACGCCGCGACGTGGGCGAGCGTGTCCACGCCTCTGGGTGGC
ATGAAGCAGTCGGGGCTGGGGCACCGCCATGGTGCGGAGGGAATTACAAAATATGCGGAG
ATCCGAAACATCGCGGAGCAGCGCTGGATGTCTATGCGTGGGCGGCGCAAAATGCCGCGA
AAGGTGTACTCAGACACCGTGCCACAGCGCTAAAGCTGGGCAAAATCTTTAAAGTTTTC
CCG

>RXA01498-downstream
TAGCAAAAAGCCGACCCCTTGCT

>RXA01499-upstream
GCAGCAATTATCTCCACCGAAGAGGACTAAATATAACGTGGCATTGAGCAGTGTCCAGC
ACAGTTCCTGAGATCCGCCAGGCGCCCCGAAGCGTACT

>RXA01499
TTGTGGGACGTCTTAGAATCCGTCGCGCTCTACTTATCCTGAGGCAGCAGCTATTGACGAT
GGCCAGGTGTTGACCTACGCAGAGTTGATGGAAGAAGTACCCGCGTTGGCTGATTCCATT
CATGCACAGGGCATTCGCGTGGTGATCGCATCGGTATTTCGCATGCCGTCTGGTACCGGT
GACCTTTACATCGCTATTTTGGCCACTCTCGCTGCTGGTGCTTACGTGCCAGTTGAT
GCAGATGATCCTGAAGAGCGCGCCGAGATGGTGTGGTGAAGCAAATATTAATGCGCTT
TTCGACGCCACCGGCTTCCATATGCTTCGCCCCGACCGCGGGCGGCGATACCCGTAGACCA
CGCTTGGATGATACGGCGTGGATTATCTTTACTTCCGGTTCCACCGGCAAGCCTAAGGGT
GTGGCTGTGTCCACCGTTTCAGCTGCGGCTTTTCGTGGATGCCGAAGCACAAATGTTCCCT
GTCGATCACCTTCCGGCCCCCTTGGCCCCAGAAGACCGAGTCTTTCGGGGATTGTCTGTA
GCCTTTGACGCATCTTGTGAGGAAATGTGGTTGGCCTGGGGCCACGGCGCTTGGTG
CCAGCACACGCTCCCTAGTCCGTTCCGGTATGACTTGGGCCCCATGGCTGATTTCGCCG
GACATCAGTGTCTCTCCACCGTCCCAACTCTGGCTGGTCTGTGGCCAGCAGAAGCATTG
TCACAGGTCCGCTTGCTCATCGTCGCGCGGCGAGGCTTGCTCGCAGGAGCTCGTTGAACGC
TTATCGACGCTGACCGCGAGGTGTGGAACACTTACGGCCCCACCGAAGCAACGGTGGTT
GCCTGTGGCACTCAACTCTATGCTGGTCAGCCAGTGGGCATTGGTTTGGCACTTGCTGGT
TGGGATCTTGTGTTGTGTCGACGATGCCGGCGAACCTGTGGAATCGGCGAGGTGCGCGAA
TTGGTCATCGGTGGTGTGGGTCTTGACGCTACCTTGATCCAGAAAAAGACCGCGAGAAG
TATGCGCCACTGAAGTCTGTTGGTTGGACCCGCGCTTATCGTTCCGGTGACCACGTTTCGT
CTGGAAGAAGATGGCCTCTACTTTGTGGGCGCGTTGATGATCAGGTGAAAATCGGCGGT
CGACGCATCGAGCTCGGTGAAGTTGATGCCAATGTGGCAGCGCTTTCCAACGTTTCGTTCC
TCCGAGTGGTTGTTTCAGACCCTGGTGCGGATCAAAAAGTTCTGGTTGCATACGTTTCT
TTGGAAGATGCTGCAGCTGGATTGATCACAACGTGCGGACTGCCCGACTCACCGAAACC
ATGCCTGCTGCTTTGGTTCCGCGCATTCACGTGATGGATGATCTGCCTGTCACCACCTCC
GGCAAGGTTGATAAGAAGTCTTTGCCGTGGCCTCTTCCTGGCACCGTGGTGAAGCTAAT
GACCTCAGCGCAACGGAAGCGTGGATTGCTCAGGAATGGGTGATATCCTCGGCACTTCT
GTGAGCAGCAAGACGCCGACTTCTTCTCCCTTGGCGGTACCTCTCTCGCGGCTGCGACT
TTGGTTGGCCGGGTACGCGCAAAGGTTCCACCGCTGCGGTGCGTGATCTTTACGATCAC
CCTCGCTTGGAGAAATTCGCCGAGCGTGTGAGGCTATCGCCGCGGACACTGGCATTTCCT
TTGGAGGCGCCAAACCAGGTGGAGGAGCGCGTGTCAAGCCTGTTCTTTTGGCACTCGT
GTGATGCAGACCTCATCCAGATTCCGATCATGACGCTGCAAGCAGCACAGTGGATTGCA
TGGTTGCTGTTGGGCAACAACATCATGGCAGCGCTTGATTTTCGATTGGGCTGTTTCATGTC
TCCTGGTGGCTTGTTCATCGGCATGATTTTGGTGTTCGCTACCCCGATTGGTCGCTTGCCG

ATCGGCGGTTGGGGCGCCCGCATCATCACCCGTGGCATAACTCCTGGCTCCTACCCTCGT
GGCGGTTCCACTCACCTGCGCATTTGGTCCGCCGAGCGCCTTGCTGATGCCTCTGGCTCT
CGCAATATTTCTGGCGCAACCTGGGTGAACACTTTCGCGCGTTCCCTGGGTGTGAAGATG
GCGAAGGGCGTGGATCTTCACTCCCTGCCACCAATCACTGGCCTTTTGACCTTGGGCAAC
AATGTTTCCATCGAGCAAGAAGTTGACCTTCGTGGCTACTGGCTCGACGGCGATATCCGT
CGTGTAGGCACCATGAGGTCCATGACAACGCTCGCATCGGCGCTCGTTCCACCCTGCTT
CCCCGCCACCGTGGTGGGCACCGGCGCTCACCTGCTGCCTGGTTCAACAGTGACTGGTGAT
AAGACCATCAAGCCTGGTTCTCGTTGGGCTGGCTCCCCTGCACAAAAGGTGGGTGCTGCA
AAGCACCGGTTCCCAACCTCCCATCCTCCACGCAGGTCCCGGTGGGTTCCGGTGTTGCGC
GCGACCTCCATCGTGTTGTGCTGCTGCCACTTCAGGCTCTCGCTATTGGCGCTGCTATC
ACCTTGTGGCTGGCCACGATTAGCCCCGCTTCCACTGATCTGGGGTGTGCTGGTTTTTGCT
ACCGTCGGCGCGTTGGCTGCGTTCTTTGCTTACACCGTGACCATCTGGGTGCTTGTCCTG
TTGATCCAGATCGGCATCAAGGGCGGCACCGCACCAGTGAGGTCCCGTCTTGGTTGGCAG
GCTTGGGCAGTTCAACGCCCTCATGGACGATGCCCGCACCTATCTCTTCCCGCTCTACGCA
TCCCAACTGACCCCACTGTGGTTCCGCGAGCTTGGGCGCGAAGATCGGCAAGGATGTTGAG
ATCTCCACCGCGGTGATGGTTCCCTAAACTGGCTGATATCCGCGAAGGCGCATTCCTGGCC
GATGACACCCTCATCGGTGGCTATGAGCTGGGTAATGGTTGGCTGCTCAGTGGTGAAACC
CGCGTGGGTAAGCGTTCCCTTCATTGGTAACCTCTGGCATCGCAGGACCTGAGCGCAAGCTC
GCTAAGAACTCCCTGGTTGCAGTGCTCTCCTCCACCCCGAAGAAGGCTAAGGCCAACTCC
AACTGGTGGGGTTCCCCTCCAGAGCGCATGCGTCGTGTCAGTGTGCGAAGTTGATGAGGGC
GAAGCAAAGACCTACAGCCCTGGCTTTGGTGTGAAGTTTGCACGTGGCGCGGTGGAAACC
GCACGTCTGCTTGTCTCAATAACCTCTGGTGTGTTGGCTGCGCTGTCACTGCTGCTCATG
CAGTACCTGCTCACTGAGTTCAACATGTGGATCACCTGGTTGCTTGGCGGACTGATCCTC
ATGACGGTTGGTGTGCTCGCCATGGGCATTACGGTTGTGATGAAGTGGGTTTGCGTCGGC
AAGCATAAGCCGTCTGAGCACCCCTCTCTTCAGCCGCTTTGTGTGGCTGAATGAGCTGCAA
GATGCGTTCTGTGAATCCGTGGCTGGCCCATGGTTCTCGTGCCCAACCTGGGCACCGGC
GCGCTGAACGCCGGCATGAGCGCGCTTGGCGCACACATCGGCCGTGGCGCATGGATCGAA
TCCTACTGGCTGCCGGAACCGACCTCTGCTACATCGGCAAGGGCGCAACCGTGGGCCCT
GGCGTGGTCTGTGAGACCCACCTCTTCCAGGACCGGTGATGAGCCTAGATACGGTGACC
GTCGCTGACGGCGCCACCCTAGCGGACCACTCCGTTGCCCTTCTGCTTCGCTTATCGAC
GCCTCCGCCACCATCGGCCAGGCTCGCTGGTGATGCGCGGCGACAAGGTACCAGCGCAT
ACCCGCTGGCAAGGCAACCCAATTGAGCCGTGGAGCAACTCT

>RXA01499-downstream
TAAATAACAACAATCAGCCGGAT

>RXA01502-upstream
GCTCGCCGAGGGTTTCGGCCTTTTAACTAGCATGGTGTATAGATCCATGCGGTTCGACCTT
GCGCCTGACCGTCCACTTTTTTAGGGACTAGGAGTACAGC

>RXA01502
ATGAGCACACCACAAAGCATCGTCATTATCGGCGGCGGTTTAGCCGGAGCGAAAACCGCA
GAGGCACTACGTGTAAACGGGTATGAAGGCTCCATCACGCTCATCGCAGCAGAGGATTAT
CTGCCATATGAGCGCCACCGCTGTCAAAGGAGTACATGGCTGGAAAAGTGGGCTTTGAC
AAGGCGATTGTTCAACCGGCGGAGTGGTACAAAGAAAACAATGTCACGCTGCGTCAAGGT
GTGCGTGCAACGGCAATTGATGCGGGTTACGCCAAGTCACCGTTGATGATGGCGGAAAC
ACTGAGACCATTAACTACGACAACTAGTTCTTGCTACTGGATCAGCAGTGCGCAAACTT
CCAATTCGGGAGCCGACGCCTCTAATGTGCACTACCTGCGCACCGTGGAAGACTCTGAC
GCGATCAAGGCAACCTTCGGTGAAGGTAAAAAGCTGGTCCTCATCGGTGGTGGCTGGATC
GGACTCGAAGTCGCATCAGCGGCACGAGGAGCTGGCACTGACGTCACTGTTTTGGAAGGT
GGAAAGCTCCCACTTTTGAAAGTCCTTGGTGAACGGTCGCGCAAGTCTTTGCCGATCTG
CATGTGGCAAACGGCGTTGACCTGCGCACCGAAGTGAATAATACGGACATCGTCACCGAA
GATGGACGTGCAGTTGGCGTGCGACTTGATGACGGCGAAGTGGTTCCCGCAGACGCAGTA
GTCATTGGCATCGGTGTCAACCCAGTGATTGACCTAGCGGAAACTGCTGGACTGGAAATC
GACAATGGTGTTTTGGTGGACGCAGCACTGCGTACCAGCGACCCGGATATCTACGCAGTT
GGAGACATTGCGAACCACGATCACCCAGTTCTAGGACACCGCATCCGCGTGGAGCACTGG
GCCACCGCGTTGAATCAACCTGCGGCTGCGGTGAAATCCCTACTTGGCAAAGACGCCGAG
TTTACCAACCTTCGGTACTTCTTTACAGATCAATTTCGATCTGGGTTGTGAATACGTGCGC
CACGCCACCGGTTTCGACAGGAGAAGGTATTCATCCGTGGAAACCTTGAAACACGAGAATTT
GTCGCCTTCTGGGTTGATACTGAAAACCGAATTCTCGCCGCAATGAACGTGAATGTGTGG

GATGTTCTGATCAAATCAAGCCTCTCATCGCATCAGGAAAGAGCGTTGACACCGAGAAG
CTAGTGGATCCAGAAGTTCCGTATTCAGAGCTC

>RXA01502-downstream
TAAGCAGTGTGTTTGATGGCCGC

>RXA01509-upstream
TTCCAAAATTTTCGAGGATTTCCTTGCCCCGGGTCTCGTTTATTTTTGAACACGCTAGAA
TTCAAGGGCAGTAATAATTCAACCCGGGAGAAATACCT

>RXA01509
ATGAGCATCGAAGTAACCGTCGAAATCCCTAAGGGATCACGCAACAAGTACGAAATCGAC
CACGAGACCGGAAAGGTCTACCTCGACCGCTACCTGTTCACTCCAATGGCATACCCACTG
GACTACGGCTACATCGACCACCCCTCGGCGAAGACGGCGACCCATTGGATGCACCTGGTC
ATCCTCCCCGAGTCCGTTTTCAGCAGTTGTGGTTAAGTCCCGAATCATCGGTGTTTTTC
AAGATGACCGACGAAGCCGGCGGCGACACAAGCTGCTCTCCGTTCTCGACGACCCACGC
TACGACCACATCCAGGACATCTCCGACGTGTCCGATTTCTCAAGGATGAGATCGAGCAC
TTCTTCGTCCACTACAAGGACCTGGAAAAGGGCAAGCACGTTGACGGTTCGGGCTGGGGC
GACAAGGCTGAGGCTGAAAAGATCCACGCTGAGGCAATCGACCGCTACAAGGCA

>RXA01509-downstream
TAAGTCTTTTGTAATTAAGAGC

>RXA01510-upstream
CCGCGCGTATGGTTCGTGCGTGAGACGACGGTCGATATAAGGTTGGAGTCTGATATCGC
AAGAAGAATCGCAAGAAAATTTGCAGGAGAAGGAGCGCCC

>RXA01510
ATGAAAAATGCGTGGTGGGTGGCTCATCGGTTGGTGTACTGATTGCAGTGGGGGCTGTC
ATCGGTGGTGGCGTGGGTGAATCATTCTGGTTTGGTTGGATCACCCGGAGCCCATG
TCGGTGGAGATGCGCTGAGCAGCTGTTTTCTTCTGCGATTGATCCGGATGCTTTGGAAGCC
CCAGATTTTGCCACTTTGGAGAAGGATTTGACCTCGCAGGCTGCGGATTCTCGGTGGGC
ACTTTTGTGCGGTGTGCCAGGGATGTGGAATCTGGTGAGGTGGTGTGGGAGCAGAATCAG
GGGACTGCGGTGAGGCCGGCTCGGCGACGAAGATTTTGACGGCGGCGGTGGCGTTGTAT
GAGCTTGGCCGTGAGGACACCATCACAACGAAGTTGTTGAGGGGGAGCAGCCGGGAACG
GTGGTGATTAAAGCGGGTGGTGATGTCACGTTGAGTGAGGAGATGCTCGATGATTGGCC
ACCCAGCTTGAGGGGCAAGATATTGGCACTGTGTTGATCGATACGTCTATTTGGCCTGAT
GAGGGCTTTGCTAGTACGTGGGATCCAGTGGATGTTGATGCTGGTTATATCGCTGATGTG
GAGCCCGCGATGATTGAGGCTGCCCGCATTTGGTGGGTGCGAGGGGGATCTGCCGAGGTCT
CATACTCCGGCGTTAGATGTTGCGCAGGCGTTGGCGGATCGTGTCGGCGCGGACACCGTA
GATGAGGGCAGCGCTCCGGACAAAACCGTGTGGCATCCGTGGAGTCTGACACGTTGGAT
CAGCGTCTTGCTCGGATGATGAAGGATTCTGACAATGTGATGGCAGAGGGTATCGCTAAG
GAAGTGGCCGCGTCAAGGATTTGGCTACCGATTCCGGCAGTACCTCGAAGATGACGTTG
GAGATTCTCAAGGACAAGGGCTTCGATTTGAGTGGCGTGTCCATTGTGGATAATTGGGGT
TTGAGCTTTGACAACCTCATTACGCCCCGCTGCTTGATGATATTTTGACCCGCGCCGCC
ACGGAACCTGAGTTGAGTTCACATTTGACATCGCTGCCTATCGCGCATGGAACCGGAACC
TTGGAGGATCGCTACGACGGACTCTCAGGTGCGGGTGGGTGCGGGCGAAAACCTGGCACT
CTGACGGATACATCGGCATTGGCAGGGGTGGTGACCTCGGAGTCGGGGCGTGTGTTTACC
TTTGCTTTTGTGTCTAATGTTCCGCGATTGTGCCGGCGCGTGAGGCTTTGGATGAGATG
GCGTCGATTCTGAGGGACTTT

>RXA01510-downstream
TAAGGTGGCATCCCTCATCGGGA

>RXA01511-upstream
GGGCGTGTGTTACCTTTGCTTTTGTGTCTAATGGTTCCGCGATTGTGCCGGCGCGTGAG
GCTTTGGATGAGATGGCGTCGATTCTGAGGGACTTTTAAG

>RXA01511

GTGGCATCCCTCATCGGGAATCTTGAGCTGCCTAGGGTAAGCCCTAATTTCTTGGAATTA
CGCAAGGCGGTGCGCCCTTACCTGAAAGAGCATGTGCACATTGGGTTGTCGGGCGGGCCG
GATTCATTGGCGCTGGTGGCTGCTGTGCTCGCGGAGAAATCCCAGGTAACGGCGATTGT
ATCGATCATAATCTGCAGACCGGTTCTGCTGAAGTCACGCACAACGCTGCTGCGATGGCG
CGCCACATGGGCGCACAGGCGATCGTGAAGAGCATCGAGGTGCGCGCGGGGAGGGGATG
GAGGCCGCCGAGGGAGGCTCGGTACGCGGCTTTTGCGCAGCTCACCGATGAGATTTGG
GTGGCGCACACCATGGATGATCAAGCCGAGACCTATCTCCTTGGCGGTTTGCGGGGGAAT
CCCGCGGCATGAAAGATGCTTCTCGACGCCCCGAGCTATCCATTATTCGACCCCTTCTG
GGGGCTCGGCGTGCGCACACGCACGGGGCGTGCGTGGAGTTGGGTTGAAACCGTGGCAC
GATCCGCAAAATTTTGACGATGCCTTTTCGGCGGGTAGCCATCCGAAACCAGGTGATTCTT
CTTCTTGCGCAGGTGCACGGGGGAGACCCTGTACCTGGTTTGGCACTTGCGGCGCGACGC
GCTGTGGAGGATGCCGAAGTGGTGGAGGGCGACGTGAGAAGCGGCGTTTAGAGTGGCAG
GACGGTTTTCTGTGACGTTGGCCGGGGAACCTACGGGCCTTAGGCGACGCATGTTGGCG
GATTTTTTTCGCTGGGGAAGGCATCGCTGTGACCTCGAGGAACTCGACGCCATTGACCGA
TTGCTCACCGATTGGCGCGGACAGGGTGGCGTAGCCGTGGGTAAAAGCGATAATGGAAGG
TTGGAAGTGGTGGCGCAAAGTGGCAAGCTTAAGATCACTGAT

>RXA01511-downstream

TGACACCTGAATCTACAACACAA

>RXA01513-upstream

CCCTCAACTTCGTTTGATTAGTTGTCTAGTAGATCCCTTTTTATTTCGATTCCGAGAAAGGC
ACGGGCAAAACGGCCTTAGTTGAGCCGGTTGCCACTGCGT

>RXA01513

ATGAAAAACAAGAAATACCTGCAGTTTCGGCGGTATCGCAGCCGTAATCCTCATCGTTCTG
TTCTTGGTGTCCCTGTTTAGCAGTGACACCAGGAACCTCCAGGAGGTGATACCTCTGTT
GCGATGGCACAGCTTGACGCCGGAACGTCGCCGAAGCTCAATTCGATGACAGGGAACAG
CGCGTCCGACTGACCTTGCGTGAACCCATCACGGTGGATGAACGCGAAGGCGTTGAAGAG
ATCCTCGCGCAGTACCAGCTCGTACCGCGCCAGCGATCTTTGAGAAGGTGGAAGCATCC
AACACTGATTCCCTATACCACCAATGTGACCGAGGAGAGCTTCTGATGTCCATGCTGAGC
TTCATCCTGCCGATGGTGATCATCTTCGGTTTGCTGATGTTCTTCTCACCCGCATGCAG
GGTGGTGGCATGTTTGGCATCGGTGGATCCAAGGCCAAGCAGCTGACCAAGGATATGCCC
ACCAACACCTTCGCGGATGTTGCTGGCGCTGAAGAAGCAGTGGATGAATCCATGAGATC
AAGGACTTCTTGAAGACCCACCCGCTACGAAGCCCTCGGAGCGAAAATCCCTCGTGGT
GTGCTGCTTTACGGCCCTCCCGGTACTGGTAAAACCTGCTGGCTCGTGCCGTAGCTGGT
GAGGCTGGCGTGCCGTTCTACTCAATTTCCGGTTCTGACTTTGTGGAATGTTTCGTGGT
GTTGGTGCCTCGCGTGTGCGTGATCTGTTAAGCAGGCCAAGGAAAACAGTCCCTGCATC
ATCTTCGTGATGAGATCGATGCGGTTGGTTCGCGCCCGTGGCTCAGGAATGGGTGGCGGA
CACGATGAGCGGTGAACAGACCCTGAACCAAGTTGCTCGTTGAGATGGATGGCTTTGGTGAT
CGTCAAGGCGTCATTCTGATGGCTGCTACCAACCGCCAGATGTTCTTGACCCAGCGCTG
CTGCGTCTTGGCCGTTTCGACCGCCAGATCCAGTCACCAACCCCTGACCTACGCGGCCGT
GAACAGATCCTGGAAGTTCACGCCAAGGGTAAGCCTTTCGCACCCGATGCAGATATCAAG
GCATTGGCAAAGCGCACCGCCGGCATGTCCGGCGCTGACCTGGCAAACGTGCTTAACGAA
GCCGCGCTGCTAACCGCCCGCGTGGGTGGCAACGTGATCACCGCCGACGCTCTGGAAGAA
GCAACCGACCGCGTTGTTCGGTGGACCACGTGCTCCGGCAAGGTGATTTCCGAGAAGGAA
AAGAAGGTACCGCCTACACGAAGGTGGACACACCCTGTCCGCATGGGCGTTGGAAGAC
ATCGAGCGGTCTACAAGGTACCATCTTGGCCCGCGTTCGCACCGGCGGTACGCCATG
ACTGCCCAAGAAGATGACAAGGGCATGTACAACCGCAACGAATTGTTTCGCCCGCCTGGTC
TTTGCCATGGGTGGACGCTCCGCGGAAGAACTAGTCTTCGGCGAACCACACCGGCGCC
TCCGCCGATATTGAAATGGCCACCAAGATCGCCGATCCATGGTGACCGAATATGGCATG
TCCCCAGCTGTCGGCATGGTGAATACGGCCAAGAACAGGGCGACCCATTCTCCGGACGC
GGTGGCGGTGGAACCTTGGACCACTCCCAAGAAGTCGCAGCAACCATCGACACCGAAGTC
CAGTTCTCTGGACAAAGCCCATGAAGTGTCTACTCCATCCTGGCTGAATACCGCGAC
CACCTGGACCGCTTCGCGGAAAACCTTCTGAAAAGGAAACCTTGCAGCGCCAGACCTC
GAAGCGCTTTTCGACGACATCGTCCACGCAAGGTGCGCGAAGTCTTCCCCGACGAGTCC
ACACGATTCCCTCGCCAAGAAAACCGCGAACCAGTAAAAACCCAGTGGAGCTCGCACTG
GAACGTGGCGAAGAACCACCAAGAAGTTCTCCATTCTTGAGGCCTCCCGCGCAACCCGC
GAACCGCGTGCAGGAAGATTGGAAGCTCAGGGTAAGTTGCCGGTGCAGCCTGCGTCTTCT

GCCGGCGTGGCACCTGCGGCCGGAGCAGCTGCCGGATCCTATGGCACCCACCTCCAGCT
GATTGGAGCGTGCCCGGTTCCGCTGGAAAGCACCGCTCACGTGCAGAAGAAGACAGCCAGCT
GAGCAGGGCTTCCCGGCTCAGACCCCGGCACAAGCTCCTGAGCAGTCCCCTGATTCAAGT
GGCGGCCGCCCAACCCTTACGCGACTCCAACCGCATCCGGTGAGCACCTGGTATGAAG
GCCTATGGCTTCCGGCGATTCCGAACTCATGGACCAATCAACAGGTGCGGAACATACCCCA
GGTAACGTTTACAGGAATCCCCAACCGAAATGATCGGGTCCGTTTGCCGGATCATGAA
CGTTCGGAATACCCAGAAAAGGCGCAAAAAGAGTCGGTGCTGGATGCTTCTGAAACCACA
GAAATGCCTGTGCTTCCAGATCAGCCCATCGATGGTGATTCCGGGAAGTCCGCTGAGGGC
ACACAGGAGAATCCGGAAAATGAAGGAGACAACCGTGGA

>RXA01513-downstream
TAACCACGCTGCAGTTCGCGAGT

>RXA01589
TATGCAGAATTAGGTGTAAAAAATACGCATTACAGGTGGAGAACCATTGATGCGACGC
GATTTAGATGTACTTATAGCTAAATTAAATCAAATCGATGGTATTGAAGATATTGGTTTG
ACTACAAATGGTTTGTATTAAAAAGCATGGACAAAAGTTATATGATGCTGGGCTACGC
AGAATTAATGTCAGTTTGGATGCTATTGATGATACGCTATTTCAATCAATCAATAATCGT
AATATTAAAGCGACTACGATTTTGAACAAATTGATTACGCGACGCTCTATTGGTTTGAAT
GTAAAGTAAATGTTGTTATACAAAAAGGTATTAACGATGATCAAATCATACCAATGCTT
GAATATTTTAAAGATAAATATAGAGATTTCGATTTATAGAATTTATGGATGTTGGTAAT
GATAATGGATGGGATTTTCAGTAAAGTTGTAACATAAGATGAAATGCTTACAATGATAGAG
CAGCACTTTGAAATCGATCCTGTAGAACCAAAATATTTTGGGGAAGTAGCAAAATATTAT
CGCCATAAGGATAATGGTGTTCATTTGGTTTGATTACAAGTGTTCACAATCATTTTGT
TCTACATGTACACGCGCAAGGCTGTCATCAGATGGGAAGTTTACGGATGTTTATTGCA
ACTGTGATGGATTTAACGTTAAAGCGTTTATTCGTTCTGGCGTGACCGACGAAGAATTA
AAAGAACAATTTAAAGCTTTATGGCAAATAAGAGATGATCGATATTGAGATGAGAGAAT
GCTCAAACAGTTGCCAATCGTCAACGTAAAAAGATAAATGAATTATATTGGTGGT

>RXA01589-downstream
TAATGTGTAGGGACCACTACATA

>RXA01603-upstream
GTCGAGAGCTGTAAAGTCAAGGCTATATACTTCTCAAGTCGCGCCGAAATTTGTTAAATG
ACTATAAAAGGCAGTCCCTAGTCAAGGAAGAAGGTTTGAAT

>RXA01603
GTGAGTGATGCAGGGAAGAAGGACTCTTCCAAGGTGGAGATCGGACTGACCGGTGCGACCC
CTGCGCGAGTTGCTGAGCCATCTCCTTTGGAAAAACATGGCCAGCAACGATCATTGCC
ATGGCGAATCAAAAAGGTGGCGTTGGTAAACCACGTCCACCATCAACCTCGGAGCATGC
CTTGAGAGGCGGGACGTAAAGTCCGTGCTCGTTGACTTGGATCCGCAAGGTGCGTTGACT
GCTGGTTTGGGAATCCACTACGACGACGTGGATATCACCGTGTATGACCTCATGGTGGAC
AACAATTCACCATTTGATCAGGCGATCCACCACACTGGTCTTCCTGATCTGGATGTCGTT
CCTGCAATATTGACTTGTCCGCTGCAGAAATTCAGCTGGTCAATGAAGTTGGTTCGTGAA
CAAACACTTGCCAGGGCGCTGCGTCCGTGTCATGAAGGACTACGACTTCATCATCCTTGAT
TGTCAGCCATCACTTGGTCTTTGACGGTGAACGCTTTGGCGTGCGCGCACGGGGTTATC
ATCCCGATGGAGTGCAGTACTTCTCACTGCGTGGCCTCGCATTGCTCACAGACACCGTG
GAAAAGTTGCCGATCGGTTG

>RXA01607-upstream
GGGCTGAAGGGCTGGGCGGAACAATAATTATTGAATCTACAATCGGATCGGGAACCTGGAA
TTTCCGCCCCGTTTCCCTATCCACAAAAGGACCAAGATAA

>RXA01607
GTGATCCGATATTCTGTTGGCTGATGATCATCCCGTTGTTTCGCGCAGGCCCTTGCTCCTTG
CTGGTGAGTGAAGATGATTTTGAGATAGTGGACATGGTGGGCACCCAGATGATGCCGTT
GCGCGCGCCGCGGAAGGCGGGGTGGATGTGGTGTGATGGATCTGCGTTTGGTGATCAA
CCAGGCATCGAGGTGCGCGGGGGTAGAGGCAACGCGTCGCATCCGTGCGCTGGACAAC

CCGCCACAGGTACTGGTGGTGACCAACTACTCCACAGACGGCGATGTGGTGGGCGCAGTA
TCTGCTGGTGCCGTGGGGTATTTGCTCAAAGATAGCTCCCCAGAAGATCTCATTGCCGGT
GTTTCGCGATGCCGCGCGGGGAGAATCAGTGCTTTCAAAGCAGGTGCCAGCAAGATCATG
GGGCGGATGAACAACCCCATGACTGCTCTCAGTGCCAGAGAAATTGAAGTGCTGTCTTG
GTGGCGCAAGGGCAAAGCAATAGAGAAATCGGCAAGAACTTTTCCTCACTGAGGCCACG
GTGAAAAGTCACATGGGGCATGTGTTCAACAAGCTGGATGTCACCTCTAGAACAGCTGCG
GTAGCTGAAGCCAGACAGCGCGGAATTATC

>RXA01607-downstream
TAGACGCACACGTGTTGGTAACC

>RXA01608-upstream
ACAGCGCGAATTATCTAGACGCACACGTGTTGGTAACCGATCACACCAGCGCACGCTGC
TAATCTTCACTCCATGAACAAGGTGCAGCGCAGGTCACTG

>RXA01608
ATGGCGTTGTGCATGACGGTGGCATTGCTGGAGGAAGCCTGACCGCGTGACACCTCGT
CCTGATACCGCAGACCCCATCGCAGAGGAATTCCTTCAAGCTTGGGCATCGCAAGATTTCC
GACACTATTGCGGACATCACCGACCAAGCTGACCTTGCCACAGAAATGCTCAGCACCAGT
TTCGATGGTCTGCAAGCAGACAGCGTTGAACTGACTTTGGATTCCGTGGATTCCCGGGAC
ACCATCGCCACCGCCAAATTTCTCCGTGGTGTGGAAGCTTCCCGAGACAGAGAAGTTTCC
TACGACTCATCGATGACGCTGACCAAGATGCGCAACGAATGGACAGTGCGTTGGGAACCT
TCCCTCGTGCAACCCAACTGGGCGCCAACCAGCACCTGGAATTGCGCGCCATTGAAGCG
CAGCGAGCCAACGTAATTTCTCCGATGGAGCTCCGGTTCTCGCGCCGGGAAGTATCTAC
CGAGTTTTGGTTGATCCCAGCGCAGGGGATGCCGATGTGGTGGTCAAGAGGGTGGCAGAT
TATTTGAATGAAGCCCATGCGACTGATGAGAATGTGAACACCCTTGATGTGCAAGACATT
ATGAGCAATCTTGGCGATTCCACCTATTCACTCACCACAGTTGATGCCAATTTGGGTGCC
CGCATGGAACAGGATCTAGCGGGGATTCGGGGGCTGACGTTCAATGAGGAAGCATCCATG
GTAGCCACCGACCCAGGTTTTGCTCCGGATATTGTGTCTCGCGTTGCGCGCATTGTGGAA
GATGAATTAGAAGGATCCAATGGTTGGCGCGCCTCCATTGTCACTTCCAATGGTGGGTG
ATTGATGATATCGCTACGACGCCCCAGAGCTTGCCCCCAGCGTGAGGATCAGCCTGGAT
CACAACGTTCAACGAGCAGCGGAAGAAGCCGTAGACCTGCGCGCTGAGATGAAAGCCATG
ATGGTGGTTCATGAGGCCATCCACTGGTGAAATCCTCGCAGTGGCCCAAACAGATGAAGCT
GACAAAGACGGCGATGTTGCGCTGATGGGACAATACCCACCGGGATCGACATTCAAGATC
ATCACTGCAGCCGCGGGGTTGGCGCATGAAGGATTAAGTCCAGACAGCATTGTGCCATGC
CCTGGCACCATGAATATCTACGCGCAATTGTACCAACTACAACAGCTTCTCCTTGGGC
AACACCTCATTGGATGATGCTTTTGCCAATTCATGCAACACCACTTTTCGCGGATATTTTC
CACCATTGGAGCCAGGCCAACTGAAAAATGTGGCTAAGCAGTTTGGCCTCGGAATTGAT
TATCAAAATCCCAGGCCTTGACACCATGACGGGATCGGTGCCTGAAGGTGACATCGTGTTG
GACCGTACCGAATCTGGTTACGGCCAGGGTCTTGACCTAGCAAGTCCCTTTGGCATGGCG
TTGGTGCCTCCACTGCAGCCACCGGTTCAAGTCCCACGCCAACGCTGATTTCTGGACAT
GAAACTGTTGCCAGTGAAGAAGTTCTGGCGCTTGATCCAGAAGTCTTGCCAATGTGCAG
CGGATGATGAAATCCGTGGTCAATGACGGTACCGCTCGTGGCATGCGCCAAACGGTGGC
CAGATCTACGCAAGACAGGTGAAGCCGAAATCAACGAAGGCTCCCATGCGTGTTTACC
GGCTACCGCGAAGATGACATCGCTTTTGCCACCCTCGTGGTGTGGGCGGAGGCTCCGAA
GCGGCTGCGGCTGTGACAGATCAGTTCTTTGTGAACTCGATGAGCTTCGCGCAGGGGGA
GAAGTTGCAGTCAGTGAAGCTGAAGAGCAGCCAGTCGGC

>RXA01608-downstream
TAAAAAATAGCCTCCATCCAACC

>RXA01609-upstream
GTTGCAGTCAGTGAAGCTGAAGAGCAGCCAGTCGGCTAAAAAATAGCCTCCATCCAACCC
GCTTTACCTGTCATCGCTTCAGGCGACTAGCATGGTGACC

>RXA01609
ATGTCTAAATGCGCGCACCACTTGTACCCGGAATTCCTACCCCAATCAGGGAAAGTACCT
GCACATATTGAACGTCCAGAATATGTGTGGAAGGACGAAGTCCAAGAAGCAATCGGTGAG
CCTTTTGTGCAGGCCCTGAGGTCATCGAGAAGATGCGTGAGACATCTCGCATCGCTGCA

AACTCACTGAAAATCGCGGGCGAAGCCGTCAAGCCAGGCGTGACCACTGATGAACTTGAT
 CGCATTGTGCATGAGTACACCTGCGATATGGGCGCATACCCCTCAGATCTTGGTTACCGG
 GGATTACCAAGTCCTCATGCATTTCCCTCAATGAGATCGTGTGCCACGGTATTCCCTGAT
 TCCACCGTCATTGAAGAGGGCGATATTGTTAACATCGATGTCACCGCGTTCAAGCACGGC
 GTCCACGGCGACTGCAATGCCACCTTCTTAGCGGGTGATGTTTCTGAAGAACACCGCCTG
 CTGGTTGAGCGCACCGAAGAAGCCATGATGCGTTCCATCCGTGCAGCAAAGCCTGGACGT
 GAAATCAACGTCAATTGGGCGTGTCAATTGAGTCTTACGCCAAGCGTTTGGCTACAACGTG
 GTCCGCGATTTCACCGGACACGGCATCGGCCCAACTTCCACAACGGCCTTGTGGTGCTG
 CACTACGACAACACTCAGTACCGCGATCTGCTCGTGCCAGGCATGACCTTGACCATCGAG
 CCAATGATCAACCTTGGTTCCCTCGACTACGAGATCTGGGAAGATGATTGGACTGTCCAA
 AACGTTGACCGTAAGTTCAGCGCGCAGTTCGAGCACACCATTTGTCATCACCGAAGACGGC
 AATGAGATCCTCACCTCCCAAGACGATTCCGTC

>RXA01609-downstream
 TAAAAACGCCTAGGCCACAAGCC

>RXA01620-upstream
 CGGCCGAGCAGTAACTTGCAGGTCAATGCAACTTTTTAACCCTAGAAAGTTATGGCCAA
 AGACTGGCAATAGGTTAAGAACTTGCCTTAGGATAGCCTA

>RXA01620
 ATGCAATCTATTGCAACGACCTTCAGGTGCGTTTTACGCGAGCGCAGTTATCGTGGGTACC
 GTTTTGGCTTTGGGTATCGCAGGATGTTCCACGGCCAGTGATGAAGCCACAAGCACCAGC
 GACGATGTAGCTGTGCGGCGCCGCTATTTTCTACAGCGGATTCCGCCACCGCCGCTCTG
 GGAAGCGACGCCGAACCAGGCCAATTCCCCCGCACCGTTGTGCATTACGCGGGCGAACT
 ACCCTTGAGCAGCAGCCACAACGAGTCGTGGTTCTCGACAGCGGTGAAATCGACCAGGTT
 TTGAGCCTCGGCGTGACTCCCGTCGGCATCGCCAGCCGAAAGACGCCTCCAGCCAGCCC
 GCTTACCTCGAAAATCAGCTGGCAGATGTACAACTGTGGGCGACCACGAGTGAGCTCAAT
 TTCGAAGCCATCGCCGCCCTCAAGCCTGACCTGATTCTGGGCGCAAGCTGCGCGTCGAC
 GAATCCTACGATCAGCTCTCCCAAATCGCACCAACCGTGCTGAGTATTGCCCCGGATTTC
 CCCTGGAAGGAAAACCTCTCTCCTCACCGCCGACGCGCTCGGTCTCGAGGGCAAAGCCGTC
 GAGGTTCTCAACGAGTACCAAACCCATGTGATGCAGTCCGCGAGACCATCGACGGCAGC
 CCAGAAATCTCACTCGTCCGCTTCATGCCTGGTGCACCCGCTGTACGGAAACCTCTCT
 TTCATCGGTGCAATCCTTAAGGACCTGGGGCTTTCTCGCCAGAGATCCAAAATATCGAC
 GATCTTGCCGTGGAGATCTCCCCGAAAACATCACCGATGCCAACGGCGACTGGATTTTC
 TACTCCACCTACGGCAAGCCCGAGGCCACCGAGCAGGACAACATTTTGTCCAACGAGCTG
 TGGCACAACCTTCCCCCGCGTCCAAGAAGGTGATGCCCTGGAGGTCAA

>RXA01620-downstream
 TGACGAGAGCTGGTTCATGGGGT

>RXA01640-upstream
 CATGGTGCTGGCGATGGTGGCGCTGATGATCCTTACCAGTGGGCAGTTAAATCCTATGGT
 CTTGATTTTTCCAATGATGATGGGTATGAGCGTCTTGATG

>RXA01640
 ATGTTTCGCCCCACCTGAAGGTGACGATACTGATGAGGTTTCGGCGCACCTATTTACGTAC
 CTGGGTGCATTGCGGGCGAAAGCGACAGATCACGCGGCGATGCAGCGCAGGCATGAATGG
 CACAGGCATCCTGATCCAGCAACCTTGTGGTCCACGTGGGGACTCGGCGGATGTGGGAG
 CGCACCCAAGATGATCAAGATTGTTTGAAATCCGTTTGGTTTGGGCGTGACCAGGCTT
 GATCCGGCTATTAACGTGAGTGATTCGGGTGCGCCGAGGATCTTGATCCGGTATGTGCG
 GTGTCGTTGCGTCACACCATTCGGGATGTGGGGTCGGTGACAGCATGCCGTTGTCGGTT
 CAGTTGCAGGCGTTTCGATTCAATTGGGCTCAACGGTGCGGGCGCACATGATCTGGCGCGG
 GCGCTGGTTGTGAGTTGTTGTACCACCACGGACCGGAGGTGGTGGGTATCAAAGCGATC
 GGGGAGTCGGGTTGGGAGTGGCTGAAATGGGTACCGCACACCCGCGATCCGGAGAAGGCA
 GCCTTTCGGATTTTGGTGGTGATTCGCTGTTGACCAACGGCACCGAAAGCTTCATTGAT
 GACCCCCAATGGACCACGATCATCAACGTTGGCGCGCAGACCAGCACCGCATTTGGGCCAG
 CTGGCAGAGGATGAAGGGCTGCTGTTGCACGTCGATAAGCGTCTGCATGTGGCTACCGCG
 CACGGCGCGGAGGAGCTGGGCACGCCGATGCGGTTAGCGCTGAGCTTGGCGAGGTTTTT

GGCCGCCGTTTACTGCTTTTCGACGCACAACCACAGCACACGCGCGAGCTCTGGTGAA
 TTGCTGTCCCTTTTGGGGATTGATGACGTGGAGCATTTAACTCCAGAAACCTTATGGATG
 AACAAGCGCACGCAGCCTAAAACTCGTTTGGCGGTGCCCTTGGGTTTGAACGCGTCCGGT
 CGGCCGATGGTACTGGATCTGAAGGAATCGGCGCACGGCGGAATGGGACCACATGGGCTG
 TGCATCGGCGCTACTGGCAGCGGAAAATCCGAACTTTAAAGAACACTTGTCTAGGTTTG
 ACGATCACCCATTTCGCTGAGGAATTGAATCTGGTGTGGTGGATTTTAAAGGTGGCGCC
 ACCTTTTGGGCTTCGAGCAGCTGCCTCACACGTCCGCGGTGATCACCAACTTGGAGGAA
 GAGCCCGTGCTGGTGGAGCGCATGCATGATGCGATTTGCGGTGAGATGAACCGCAGGCAA
 GAAGCCCTTCGGCAGGCAGGTGGCTGCGCCAATGTGGATGAATACAACCAGCGTGATGGT
 GTGAAACCGATGCCGCGCTGCTCATTGAGAGCGATGAATTCTCGGAGTTGCTTGGCCAA
 CATCCCGATTTCGACAGACCTATTCGTCGCCGTTCGGACGCTTGGGCCGTTCTTACACATC
 CATTTGTTGCTCGCTAGCCAACGTCTGGAAGAGGGGCGGTTCGCGCGGATTGGATTCCCAC
 TTGTCTACCGGATCGGCTTAAAAACCTTTTCCGCATCCGAATCGCGCCAGGTATTAGGC
 ATCACTGACGCATATCAATTACCCAGCCAACCGGCGCAGGTTTCTCAAATCCGACGTC
 GACACCGTCACCCGCTTCCAAGCAAGTTATGTATCCGGCCCCATCATGCGTCGCCATCAC
 CTCGCACCAACGCAGTCCCGGGTTCGCGCTTTTACCAGCTGGGAGGAACCCAAAGAGGAG
 GTGATTGTCGAGCAAAGCACCGAGACGCTTATCGACGCCGTGGTTGCGCGCGCCATCAGC
 GCCGCGAAGTTGCGGGGGTTAAGCGCTCATCGCATCTGGTTGCCACCGTTGCCGGCAGAA
 GTTTCGATTGGTGTCTTGGCTGATGATGTCGGTGAGCTAAGCGCCGTGATCGGGATGATC
 GATAGACCCATCAACAGCGACAAGATCCATTGCTGATTGATTTTTCTCTCACCGGTGGA
 AGCGGCCACTGGGCTATTTGTGGTGGGCCCCAAACCGGAAAGTCCACGGCATTGCGCAGC
 ATCGTGATCTCCATGGCAGCAACGCATAGCACAGAAAACATCCGCTTTTACGTGCTGGAT
 TTATCTGGAACCTCCCTGGAAAATCTCTCCGGCTGCCTCATGTTGCAGGCGTGGCAGGA
 CGCAAGATCCAGAGAAAAGTCCGCGAGTTGTTCGATGAAGTACGAGGCCGTGATCAACCAC
 CCTGAACAACGCCACACCTTCTTATTGTGGACGGCTGGCACACCATCACCAAGAATTC
 GACGAGCTTTTCGACGCCTTCGTAGACATCGCCGCCAACGGCCTTGCCTCGCGGGTGCAT
 TTAGTTTTAAGCACTAACGCTGGAGTTCCATCCGCCCCGCGTCCGCGATCTGGTGAAT
 GGCAGAATCGAATTGAACTCGGCGAAGCCATGGATTCCGGTGATTGATCGTAAAGCTCAG
 CTTCCGGATCCCGTCGAAACCTGGGCGTGGCCTCAACCTGGATAAAGAACACATCCTTATT
 GCTCATGCGTCTGGCCAAGACATCGCCAGGTATGCGTCATGGCCGATGGGCAAGGATGG
 CAGCAGGTCCCACAATTAAGCGTGCTGCCTGCGCATATCCTGCTTCACGAGCTTGAGCTT
 TCTGCGACACCTGGCATCCCGATTGCACGGGAGGTGCTGAAGTATCCACGCTGACGTGG
 GATCCAGAAATCCAGCGCCACCTTCTAGCTTTTGGTTCTCAAGGTTGTGGCAAATCCTCG
 CTGATCCGACGATTGTACGGGTCTGACAATTGTGGGGCGGGAGAAAGCACGCTTGGTA
 TTTTTCGACCTTCGACGCACCCACCTAGGCCTGGTCCCCGAAGACATGTTGGCTGCTTAT
 TGTGCTACTTCCACAGCAGTCCACAACACCATCAAAGACATGGTGGCTACGCTATCCGCC
 AGACTTCCAGGACCTGATATCACCGCCCAAGAACTCCGCGATCGTTCTTGGTGGCAGGGG
 CCGGACATTTATTTAGTTATCGATGATTATGATTTGCTCCCCGCCGGCACCCCTGCACCCG
 CTGCGCGAGATCATCCCGCATGCAAGAGACGTAGGCCTGCACATCGTGCTCACCCGCAA
 GCCGGTGGCGCTTCGCGTGCCTCTACGATCCGGTCATGTCCGAGATCAAGGACCAATCA
 CCGCACGTCGTGCTTTTCGACGCCGACCGCGACGAAGGCGCTATCCTAGGCATCAAACCC
 ACAGCACAACCACAGGACGTGCCACGATGTCCATCCGTGGTGAAAACATCGGTGTTGCA
 CAGATGGCACCCGCATAGG

>RXA01640-downstream
 TGATGACTCATGAGCACCCAAAC

>RXA01653
 GGAAGTGATCTACAAGCTTCTCGAGGGCTCCTGGAAGACGATGCTGTTCAAAACAATACG
 GAGACGAGTGTCTTTACGGAATCCTCCAAAGTGACGCCATTAAATCATCATGGCAAGTAC
 TTTGATGTGCCGGGCAATTGCCATCACTGAGCCGAGTGTGCAGCGTACGCCGGTGTCTAC
 CAGGCGGGTGCATCGCCGCGCGGATTGAAATTGCTGGTGAGAATGCAGAAGCAGTGTCT
 ATCAATTCAGCACCGTGGAGGCAATCACCAGACTGTCGCAAAAATTCGCGCTGCTGCG
 GTCGCTGCGGGACGTGATCCACATGCGGTGAAGATCTTTGCGATGCAAACCATCATCACT
 GGTGAAACAGAAGCAGATGCGCAGGCAAAGCTGGAGGAATACAGTCGCTATATCGATCCT
 GTCGGTGGTCTGACCTTGATGTCTGGATGGACCGGCGCGGATCTGTGCGAGTATGACCTG
 GATGAAACCGATCACCATATTGAGTCAAACGCTATTAGTCCACTGCAGCCACCATTAGC
 AACGGCACCGGTGAAGGTGCGTGGACGCTACGCAAACTGGGTGAGGCAACCGGCATCGGC
 GGCTTCGGACCAAGTGCTTGTGGGATCTGGCGCTAACGTTGCCGCGGAACCTGCACGCATC
 CAGGATCTCAGCGATGTTGATGGTTTCAACCTTGTCTATGCCATCACCCAGGAACCTTTT

GAAGATGTCGTGGACTTTGTGGTGCCTGAGCTGCAAAACTTAGCCGCTACAAGACGGAA
TACGCGCCGGGTTTCCTTGCGCAACAAATTGCTCGGTAAAGGTGATCGCCTGGACGATACC
CACC GCGCGCAAGCTACCGCTAGGCGCTCGGAACCTCCACCGCCACTATTGATCTCAGT
TCCATATCCGCCCCAACTAGTTTCCCAGGGAGCCCACTCA

>RXA01653-downstream
TGATCTCACCGCAAACAATCATC

>RXA01654-upstream
CTTTTGCTGTTATGAAAGTGAACATAAGATATCTATGCGCAGACCGGTCTCACGCCGCGC
CATTTTGTCAACATCTGTTTGGTTGCGGGGGTGAGCATC

>RXA01654
ATGTCACCTTCGGCCAACGCAGCTGAGGCTCCGGCATCGGAATGGGTGAATACGACAGCG
ATCGTAGATCAAGCGAATGCTCAGTTGTCGAGTTTGGCGTGAGTCTTGACCGAAGTGCA
GCAGAACTTTTTGATGATCAGGCAAACTCCCAAATTGATGCAGCGCTTTCACCGTATGCC
GATAAGGTTCCAACCTCTGGCGGCCAGGTAGTCGAGCAAAGTCTTCAGGTTGTGGAGCAG
GAAGTTCAAAAGGCACTGCCCAACTATGAAATCCGTACCGATCTGCAATCCCAGGTGATG
GGTGCAACTCTAGGAGAGGTGCTGCACCGAGTTCCTGGATCATGGTTTGATGCGCCAGCA
GTTCTCTGAAGAATCCAGGATTGTAGAGGAACAGGGTAAATCCCTGTATGGGCCCCGTACC
CCGATCTATCTCAACGGAAATTCATGTGCACGCTTGCAGTGACTGGAACGATGCAGAT
GGGCGCAAGATCGGTATCACTGCAGGTCACTGTGGAAAATCGGGCGATGCAGTCCGTTCCG
GCTGACTCCTTCTGGGTGCGCGATACCGGAACAGTGGTGTACAACGCGCCTAACGCTGAC
TACTCCGTGATCGAGTTCGGTTCCAATGCAGAGTTGAGCAATACCTACAACGGTGTCACC
GCGAATGCTGTGCGCGGTGGCGTGACTAATGGCCAAGAAGTATGCAAAAACGGAGTTGCT
ACTGGCTACACCTGTGGTTTGGTGTGGACTGCTGATGAGCGCATGACGATGTCTCAGGTG
TGTGCGGGTCTGGTGATTTCGGGTGCTCCGCTGATTGCAGATGGTCTGTGGTTGGTCTT
GTATCTGGTGGTGTAATTCCTGATTACAACCTGGCATGCGCCACTCCGTTCAGGGACCT
TTCTTCATGCCAACGCTGTCACTGAACATGGATACTGTCTTAACGATTTGGATTTCGAG
GATCTTCCCGGTGAGGTTTTCAGCCAACCTGCTGGA

>RXA01654-downstream
TAGAATTTAGAAAATCCGCCGTT

>RXA01664-upstream
CGGGTTACCAAAGTGAATGGTAGGGGAAGTTCCGTGTCTTATACCGGTTAGGTTTTGCC
CGCGCTGCGCTTGCTCACATTAACGCCTAGGCTCGGGCT

>RXA01664
ATGACCGTGTTGATTTCTCCGTCCACCCTTGCTGAATCAATCCACGCTGGTAAGAAACAA
ACTGTTCTCGCTGCTTTCTGGGCTCCAATTGAAGGAGCAGGCCGCACAGTTTCTGCTCT
GAGCACATCCCAACTTCCATTTTCTGCGACCCTGCCCTTGAGCTTCCGGAGTTCCTTCC
TCTGAAGATGGCCGCAACCCACTGCCACCGCTGAATGTGTTGGCACGTTCTTTCAGGACC
TGGGGTTTGAATACCGATCGTGAAATCGTGTTTACGATCAGGGACGTGGCCTTTTTGCT
GCACGCGCCTGGTGATCCTCCGATGGGCGGGCATGCCAACGTTGCGATCCTTGACGGT
GGTTTCCAGAAGTGGGAAGACCATGAGCTGGGACACGCTGGCGGGCCTGGAAACTTCCCG
CACTTTTGCAATGTGCGTCCCAACCCAGGTGAGCTGTGCGGTAGCGACCATCGAAGATGTC
AAGGCACATCAGGGCATTTTGATTGATTCTCGCGATGAACAACGATTTGCGGGTCGCAGT
GAAAAGCTCGATCTGAAAGCCGGACACATTCCAGGCGCTATCAACATCAACGCTAAATCT
TTGCTGGAAGATGATTTACCTTCAAATCACCAGAAGAAATCCGCCAGATTTTTCGGGAC
AAGGGGGTAACCAGCGGAGAGAACGTATCGTTTATTCCGGTTCGGTAACCACTCGTCC
CAGTTGCTGGCTGGCATGGAGCACGCGGGGCTAACCGGTGCGAGCCATTATTTGCTGGT
TGGTCACAGTGGAGCGCTAACCCGAGAATCCTATCGAGGCC

>RXA01664-downstream
TAAAATCGTGGCTTGAGTACGCA

>RXA01668-upstream

ATAGATATTAGAGAGTTAAATAATGGCGCTTGACCTGCAGGAAATTGAGATCAACACTGA
TTGTGTAGGTTGGCGCCCAACAAAGAAAGGGCGTTGAAAG

>RXA01668

ATGAGTTTCATTCAATCCAACCTACCAAAACCAATGAAGCCATGCAGGCTGCTCTTCAGCAG
GCATCCTCGGCTGGCAACCCTGATATTCGTCCAGCTCACCTGTTGGCTGCCATCTTGGAG
CAAACCTGATGGCGTAGCAGCGCCAGTCCCTCATGGCTACTGGTGTGGATCCTAAGGAGATC
CTCGCAGAGGCCAAGAAGTTGGTTGCTTCTTACCCCAAGGCTTCTGGCGCCAATATGGCT
AATCCAAACTTCAACCGGGATGCCCTCAATGCGTTCAGTGCAGCTCAGGAGCTTGCCGGT
GAGTTGGGCGATGAGTACGTCTCAACCGAAGTACTTCTTGCCGGTATCGCTCGCGGAAAG
TCTGATGCTGCGGATCTGTTGACCAACAAGGGTGCAACCTATGACGCCATCAAAGAGGCT
TTCCCTTCCGTTCTGTGGATCTCAGCGTGTCCACCTCAGGATCCAGAGGGACAGTTCCAG
GCTTTGGAAAAGTACTCCACTGACCTGACCAAGCTTGCTCGTGAAGGCAAGATTGATCCT
GTTATTGGCCGTGACCAGGAAATTCGTGCGCTCGTTCAGGTGCTTAGCCGTGCTACCAAG
AACAACCCTGTTCTGATCGGTGAGCCAGGTGTGCGTAAAACCGCCATCGTGGAAGGCCTT
GCACGCCGATCGTTGCTGGTGACGTTCCAGAATCCCTCAAGGGCAAACTCTGATCAGT
CTTGATCTTGGTTCCATGGTTGCCGCGCTAAGTATCGCGGTGAATTCGAGGAGCGACTG
AAGGCTGTTCTGGATGAGATCAAGGGAGCTAACGGCGAAGTCGTTACCTTCATCGATGAG
CTGCACACCATCGTCGGCGCTGGTGCTTCGGGTGAATCCGCCATGGATGCCGGAACATG
ATTAAGCCACTGCTTGCCCGCGGTGAGCTGCGCTTGGTTGGTGCCACCACGCTGAATGAG
TACCGCAAGTACATCGAAAAGGACGCTGCCCTGGAGCGTAGGTTCCAGCAGGTTTATGTC
GGTGAGCCAAACGGTAGAAGATGCCATCGGTATTCTTCGTGGATTGAAGGAACGCTACGAG
GTCCATCACGGTGTCCGCATCCAGGACTCCGCACTGGTGCCTCGCAGCTGAACTCTCAAAC
CGCTATATCACCAGCCGTTTCTTCTGATAAGGCTATTGACTTAGTTGATGAGGCAGCA
TCACGCCTGCGCATGGAGATTGATTCTTACCTCAGGAAATCGATGAGCTGGAGCGTATC
GTCCGCCGCTCGAGATCGAAGAGATGGCGCTGTCCAAGGAATCCGATGCAGCTTCCAAG
GAACGTCTAGAAAAGCTGCGCTCGGAACCTTGCTGATGAACGCGAAAAGCTCTCTGAGTTG
AAGGCTCGTTGGCAGAATGAGAAAACCTGCTATTGACGATGTCCGGGAGATGAAAGAAGAG
CTGGAAGCGCTGCGTTCTGAGTCGGATATTGCAAAACGTGACGGCAATTATTGTCGTGTC
GCAAAGCTTCGCTACGGCCGAATCCCTGAGCTGGAAGAGCAGATCGAGGATGCAGAATCC
AAGGTCGAGGTCAATGAAAATGCCATGCTCACTGAGGAGGTACGCCAGACACGATCGCC
GATGTGGTTTCCGCATGGACGGGCATTCTGCAGGCAAGATGATGCAGGGTGAGACCGAG
AAGCTGCTCAACATGGAGCGCGTCTTGGGCAACCCG

>RXA01691-upstream

AAAACCTTAAGTTGGGTGGTTAAACCCACTAAGGTCTCACTTTATGGATGTGCCAGGTCA
CACCAAAAAATCTCAAGAAAACTCACATTAAAGGACAGTA

>RXA01691

ATGGCGTCACAACAGATCCGCTATCCATTCTCCGCGGTTGTGGGACAAGACGAGCTTCGG
CTTGCGTTGATCCTCACTGCGATTTCCCCACGCATTGGTGGCGTGGTGATTCGAGGTGAG
AAGGGTACAGCGAAAACCTACCACTGTGCGTGCTTTTGCTGGTCTTTTAGGTGATGCCCT
TTGGTGAACCTTGCTCTCGGATCCACGGAGGATCGTGTGGTGGGTTCCTCAACATGGAA
ACTGTGTTGACCACCGGCCGTGCGGAATATCAGCCAGGTTTGCTCGCGCAGGCTGATGGC
GGTGTGCTGTATGTCGATGAGGTCAACCTCTTGGCGGATCACCTGGTGGATGCTCTGCTC
GATGCAGCTGCAAGCGGTGCGCTCAGCATTGAGCGTGACGGTATTTCGCATTCTTACCA
GCAAACCTTTGTGTTGGTGGGCACCATGAATCCGGAGGAAGGCGAGCTGCGCCCGCAGCTG
CTGGACCGTTTTCGGTTTGGCTGTGGACGTTGCTGCGTCTACGAACCTGAGGTGCGCGTG
GAGATCATTCGCCGCCCGGCTTGATTTT

>RXA01728-upstream

GAATCGCCGACCTTGAAATGGACCCGGTTTCCAGAAGACGTGCTTCCTTTGTGGGTGCG
GGAAAGTGATTTTGGCACCTGCCCGCAGTTGAAGGAAGCT

>RXA01728

ATGGCAGATGCCGTTGAGCGCGAGGTCTTCGGATACCCACCAGATGCTACTGGGTTGAAT
GATGCGTTGACTGGATTCTACGAGCGTCGCTATGGGTTTGGCCCAAATCCGGAAAGTGTT
TTCGCCATTCCGGATGTGGTTCTGTGGCCTGAAGCTTGCCATTGAGCATTTCTACTAAGCCT
GGTTCGGCGATCATTTGTCCGTTGCCTGCATACCTCCTTTCATTGAGTTGCCTAAGGTG

ACTGGTCGTCAGGCGATCTACATTGATGCGCATGAGTACGATTTGAAGGAAATTGAGAAAG
 GCCTTCGCTGACGGTGCGGGATCACTGTTGTTCTGCAATCCACACAACCCACTGGGCACG
 GTCTTTTCTGAAGAGTACATCCGCGAGCTCACCAGATATTGCGGCGAAGTACGATGCCCCG
 ATCATCGTCGATGAGATCCACGCGCCACTGGTTTATGAAGGCACCCATGTGGTTGCTGCT
 GGTGTTTCTGAGAACGCTGCAAACACTTGATCACCATCACCAGCAACTTCTAAGGCGTG
 AACACTGCTGGTTTGAAGTGTGCTCAGATCTTCTCAGTAATGAAGCCGATGTGAAGGCC
 TGGAGAATTTGTGCGATATTACCCGTGACGGTGTGTCCATCCTTGGATTGATCGCTGCG
 GAGACAGTGTACAACGAGGGCGAAGAATTCCTTGATGAGTCAATTCAGATTCTCAAGGAC
 AACCGTGACTTTGCGGCTGCTGAACTGGAAAAGCTTGGCGTGAAGGTCTACGCACCGGAC
 TCCACTTATTTGATGTGGTTGGACTTCGCTGGCACCAAGATCGAAGAGGCGCCTTCTAAA
 ATTCTTCGTGAGGAGGGTAAGGTGATGCTGAATGATGGCGCAGCTTTTGGTGGTTTACC
 ACCTGCGCTCGTCTTAATTTTGGTGTTCAGAGAGACCCTTGAGGAGGGGCTGCGCCGT
 ATCGCCAGCGTGTTG

>RXA01728-downstream
 TAAATAATGAGTAAAAAGTCTGT

>RXA01795-upstream
 AGACCATATTGAAGACCTCGAAGCTGTTGAGCCTGGCTACATCGTCAAGCCTCGCCTGTA
 CAACTTCGCTGAATACGGTGTCCCACAATTCCGCGAACGT

>RXA01795
 GTGCTCATTGTTGGCATTTCGCCGTGACACCGGCTTTGATTTCAAGCACCCAGCTCCTACC
 CATGGCCCTCGCGGTGACATGCCGTATAAGACTGCCGCGAAGCGCTCAAAGGCGTGAAG
 GATGTCCCCACAAACAACAACCACATGAAGATCATGCCTCGCACCGTTGAAGTGCTTAAG
 CGCATCCCTGAGGGCGAAAACCTTCACCGCGATCCCCAAAGATGACCCCTACTACGTCAAG
 GGCATGATTAGTCACGTTTACCGTCGCTTGCACCGTGATGAGCCATCCAAAACCCCTTATC
 GCCGGTGGCGGGGGGTACATGGGGATACCATTATGAAAAAATCGAGCATTGACCAAC
 CGCGAGCGGGCTAGAATTCAATCGTTCCCCGATGACTTTGAGTTTTTGGGATCAAACACC
 CAAGTCCGCCGCCAA

>RXA01802-upstream
 GGAATTCTGGACAAAAGTGTTCACCTACGTTAGACATGAGAACCAGTGTGGCACATCACAG
 GAAATCTTCGCGGGTGTTCAGACAACCCGGATGTGACAGA

>RXA01802
 ATGGGCGATCAAGACATAATCGGAAAGGAATCCAAACAAATGGACTTTCGCCTCGTCGCG
 ACAGACATGGACGGCACACTTTTAAACACCCACCACGAAGTCCAGAGAAATTTTGGGAC
 ATCCTGGAACAAATGCGTGCCAAAGGAATCGCCTTCGCACCAAGCCAGCGGCCGTCAATTA
 GCCACCTTGCAAAAACAATTCGGGACGCGGGTGAACCCATTTCTTACATCGCAGAAAAC
 GGCACCGTGGTAGTCCACGACGGCGAAATTATCTCCCTGACCACCATCGACTCCGACACC
 GTACACTCCATCATCGATGCCGTGCGCGCATCCGACATCGATATGGGAGTAGTGGTCTGC
 CGACCAGAACGCGCCTACGTGGAACGCAACGACGAAGCTTTCGCGCCGAAGGCCTGAAA
 TACTACGTCTCCATCGAGGAAGTCCAAGACCTCCACGAAGCAGTCAACAATGAAGTAATC
 AAGGTAGCGATCTTTACATTCCAAGATGCCGAAAGGACTGTGCCCCCATCATCCGCGCA
 GCCTCCCCCAACGCCAACGTTGTTGTCTCCGGCCAGCACTGGGTGATGTGATGGATCCT
 TCAGCCAACAAGGCCAAGCTTTGGCTGCTCTCCGCGATGCCCTCGGATTGGAAGAATCC
 CAAACTCTCGTGTGTTGGCGACTACCTCAACGACACTGAATTGATCAAGGCCGCCGGAAG
 TCTTACGCCATGTCCAATGCCACCCGGACATTTTGAATTGGCCGACGAAATTGCACCA
 TCCAACATTGAAGAGGGCGTTATTGTGGTGTGAGAGAAGTTGCTTAACGGT

>RXA01802-downstream
 TAACGATTGCAGGCAGCAGGTTC

>RXA01828-upstream
 CATCCCTGATGGCTAACTACATTCTGATGGCCATCATCTTGCGTATTTCTGACAGTGCCC
 GCCGACCTGTATGTCCAAGCAAGCATCGGAGGTGGCTGC

>RXA01828

GTGAACCGCTCGATTGAATCACATCCCTCTTCTCTTTGCTCCTGATCTTGGTGCTCGTA
 GCAAACCTCACCTGGATTGAGGCTTTTAGGGACGATGATCTTGCTCAGAACCCACTGAAC
 GCACGTGGTTTTCTGGAGGCGAAGTCCACTCCGCGTGGACAGATTTCAACTGGTGGCCAA
 GTACTCGCAGAGTCTCTCCAGGACGATCAGGGTTTTTACCAGCGCAGCTACATCACCAC
 CCGACTGCCTACGCACCGGTGGTTGGTTACCTCTCTGATGTTTATGGAGCAGCTGGCCTG
 GAATTGGGATACAACTCTATCCTCAACGGCAGTGACTCTTCCCTGTTTACCTCCCAGTGG
 CTGGATGTCATTTCTGGCAGCCCTACCCATGGCGCAAACATTGAGCTGACCTTGGATCCC
 AATGCGCAGCAAACCTGCTTATGAACAGCTGAGCCAAAGCGGCTACGAGGGTGCTGTGGTG
 GCGCTTCGCCCCAAGCACTGGTGAGGTGCTGGCCATGGCGTCATCGCCAAGCTATGACCCC
 AACCAGATCGTGGATCCAGCAACCGCAGAGGACGCTTGGGCTGAGTACACCTCCACTGAA
 GTGTCACCGCTGCTCAACCATGCAACGCAGGAATCACTGCCTCCTGGATCTATTTTCAAG
 ATCATCACTACTGCGGCAGCTTTGGAAAACGGCTACTCTGCTGATTCCACCGTGACTGCA
 GAGGCAGCAGTGACCCTGCCTGGCACCAACACCACCTTGACCAACTACGGCGGTCAGACA
 TGTGCGGGCGGTGGCACCACTACCCTGCTCACCGCTTTCCAGCTCTCCTGCAATACTGCG
 TTTGTGGAGACCGGCATTGATGTTGGCGCGGATGCTTTGCGCGCGTCTGCCGAGGACTTC
 GGAGTGGGACAAACCTACAGCTTGGGACTAGATAACGTTCTTGGCGGCTTGGGTGAAATC
 CCCGACGATGCCGCCCTTGGACAAATCCAGCATTGGCCAGCGCGACGTGCAAATGAACGTG
 CTGCAGGCCGCTGTCTATGGCAGGAACCGTATCCAACGGTGGCGTACGCATGGAACCATAT
 TTGGTATCCCGCGTCACCGGTGAGGACCTGAGCGAACTGAGCACCCACAAGCCGAAATCA
 GTTGGTGGAGTGCAGCCAGAAATTGCAGAACAGTTGAAGACTTTGATGGAAGCCTCAGAG
 CGCAATGCTTGGGTGATGATTATCGCCTTGATGAGGCCACGGGCTACAGCACGGTCAAT
 GGTGATGAAAACACACCACACACCTGGTACGTGGCATTCAACAACGACATTGCTGTT
 GCTGTGTTGGTGAAAGACGGCGGTGGATTTGGCACCAGTGCAACTGGTGGTCAGGTCGCA
 GCCCAATTGGCCGAGCTGTGCTTCAGGCAGCCGGAGGATTT

>RXA01828-downstream

TAAAATATGAGTCAAGAAGACAT

>RXA01829-upstream

TGCAACGGCTGGCTGCTCAAGCTTTGCCAGTGTGCGTGAACCTAGAAGTAACAACCGGTG
 GCGATAGAAACGAACCCGGAGTCAATTGTAGGGAGGTCTC

>RXA01829

ATGAACACGCTTGAACGATTAAAGCTTCGTGCGACGGAAATGTGGCTGCTGATACTTGCC
 AACTCGTTGTGTGTCGATCATGTTTCATCAGCCTCGAGCTGGCCATGGGCAATGAGTTGGGT
 ACCCATATTTTATGCTGATGGGCGGATATATCGGTATCTTCATCGTCGCGCACCTAGCC
 ATGGCATGGGTGGCGCCGTTTGCTGATCAAATCATGCTGCCTGTGGTGGCGGTGCTCAAT
 GGCATTGGTTTGGTGATGATTATCGCCTTGATGAGGCCACGGGCTACAGCACGGTCAAT
 AGCCAATTGATGTGGACGGTTGTTGGCGTCACGCTGATGGTGGCTGTGTTGTTGCTGTTG
 CGTGATTACAAGTCGCTTTCGCGTTATTCCTACCTCCTCGGTGTGGTGGGCATCGTGCTG
 CTGGCGCTGCCTCTCGTGTGGCCGACGCCAGGCGGCGTGGAAGCCCGCATCTGGATTTGG
 CTTGGACCTTTCTCCATCCAGCCAGGTGAGTTCTCCAAGATTTTGCTGCTGCTGTTCTTT
 GCTCAGCTGCTAGCCACCAAGCGTGCTTTGTTTACTGTTGCGGGCTACCGTTTCCTCGGC
 ATGGATTTCCCTCGTTTTCGCTGACCTCGCGCCGATTCTTGTGGTGTGGGCGTTGGCTATT
 TTGATCATGGCTGGCGCCAACGACTTCGGTCTGCACTGCTGCTTTTCACTACCGTTTTG
 GCCATGGTGTACCTGGCTACCGGCCGTGGTTCTGGCTGTTGATTGGTGCTGTGTTGGTG
 GCTGTCGGCGCGTTTACGGTGTACCAAGTTTTCAAGCAAGATTGAGGAACGCGTGCAAAAC
 TTCGTGGATCCTGTGGCCCACTATGACACCACCGGTTACCAGCTGTCCCAGTCCTTGTTT
 GGCATGAGTTGGGGCGGAATCACCGGCACCGGCTTGGTCAGGGTTACCCCAACATGATC
 CCTGTGCTGCACTCGGACTTCATTCTCGCAGCCATTGGTGAGGAGCTTGGTCTGATTGGC
 CTGGCGCCATCATCGTGCTGTTTGGTGTGTTTGTACCCGCGGTATGCGCACCGCTACC
 CTGGCTCGTGACAGCTACGGAAGCTCGTGGCATCTGGTCTGTGATGACCATCATGATC
 CAGATTTTCGTGCTGCTGGCAGGTATTTCTTCACTGATGCCCATGACAGGTTTGACCACT
 CCGTTTATGTCCAGGGTGGTTTATCCCTGATGGCTAACTACATTCTGATGGCCATCATC
 TTGCGTATTTCTGACAGTGCCCGCCGACCTGTCTGTCAGCAAGCATCGGAGGTGGCT
 GCG

>RXA01829-downstream

TGAACCGCTCGATTGAATCACA

>RXA01838

CAGCACCTCTCCGGCGGCCGTGTTGACCTTATGATGGGCGGTGGCAACACCGGACCCGTT
TACCCATGGTTTGGCAAAGACATCCACCAAGGCATCCCACTAGCGATTGAAAACCTACCAC
CTCCTGCGCCGCTCTGGCGCGAAGACGTAGTCAACTGGCAGGGCAAATTCCGCACACCG
TTGCAGGGATACACCTCTACCCAGCACCATTAGACGGCGTTGCACCATTTCGTCTGGCAC
GGCTCCATCCGCTCCACCGAAATCGCAGAGCAAGCAGCCTTCTATGGCGACGGCTTCTTC
CACAACAACATCTTCTGGAACAAAGAGCACACCGCCCAAATGGTCAACCTCTACCGCCAG
CGTTTCGAACACTACGGACACGGCCAAGCAGACCAGGCCATCGTGGGACTCGGTGGCCAA
GTCTTCATCGGCGATTCTGAAGAAGAAGCAAAGAAGACCTTCCGCCCTACTTCGACAAC
GCCCCTGTCTACGGACACGGACCATCACTTGAAGATTCTCCCGCTGACCCCACTAACCC
GTCGGTACCGCTGAGCAAGTTATCGAACGCACCATGGAATTCGCCGACTGGGTAGGCGAT
TACCAGCGCCAGCTCTTCTCATCGACCACGCCGCGCTGCCACTAGAAATGGTCTTGAT
CAGATCGAACGCCTCGGCCACGATGTCGTCCAGAGGTACGCCGCCGCGATGGAGGAGCGT
CGCCAGACCACGTTCCCTCCAACCCACCAACCCACCAGAGCCTGAAGGCCAACCGAAAC
AGCCCTTACTTTTCAGATCAACCCCTGGTCAGCCAACTGAG

>RXA01838-downstream

TAGTTTTTCTGAAACTAAGGAGA

>RXA01848-upstream

CTGCAAGGAACTGCGCAGGCGAAGGCGCAGACTACTGGAAAGGTAGGTACTGCCGGATCC
GGCGACCCCTTTTCGCTCCTAGGCATTTGCGCCTGGCGTCC

>RXA01848

ATGGGGGAGGAGGACTCCACCCAGGTAGGCGTTCCAAGGCGTATTTCGCGCCAGGGCGCT
GATGTCGCCCCCATGAAGGGTGGACACGGCATCACTTAGTGGGCACGCTCATGGCGGCT
ACGGAACGCGCGCGCAACATTGTTGAAGGCGTGGTCGATTTCGGGCCACGGACCTGCGG
GGTTTCGCTGCGCCGTGGGCGCGAAGCCAACCTCATCGTGTTCGTGTCGACACATCGGGG
TCGATGGCTGCGCGTTCCAGGGTGCGTGCGGTACCGGGACTATTACCTCTATGCTTAAC
GACGCTACACGCGCCGCGACAAGGTTGCGGTTATCGCGGTCAACGGCAACAAGCCGACA
CTGGTGTGTAATCCAACAAATCTGTGGAGCAAGCTCAGCAGAAATTAAAGGATATGCCG
ATGGGTGGTTCGCACTCCACTGGCAGAGGGGTGCTCATGGCCAAGGATCTCATGGCAAGG
GAACTCCGAAAGGAACCCGGCCGACGCGCGATCCTCATGGTGATGACCGATGGCCAAGAC
ACCTCCGATGCCGGCGAAGCAGGCATTGCCACCGCGCGGAAACAGTGGTGAAATCACGA
CTGTCCGGCAACGTGGTCATCGACTGCGAAGGCCGACTCAAAGTGCGCAAGAGCGCGCC
GGGGTGTGGGTGAAATGCTCGGTGGTGTGCGTGAGATTGCGTGATCTTAACCTCCGAG
CACATCAAATGGTGATTAACGCC

>RXA01848-downstream

TAGACAACCAGAGTGAGGGTTTC

>RXA01849

CTGCCTGGTGTGGAGCTGCCGGATCTGATCTTGTGCGAGATTGCGTGTTGTGTGCACGT
ATTGAAGTCGACGGTATGCGCGCTGACCTGGTGATCACGCGTACCGCACTTGCTCACGCC
GCGTGGGCTGGACGCACTGTGGTTACGGAAGAAGACGTGGAGATCGCAGCTCGCCTAGCG
TTGCCGACCCCGTCCCGTAATCCTTTTCGATGCTCCAGAAATGGAGGAGCGCAAGCTT
CAGGAAACCTGCAGGAAGCTCGGGACTTCTTCAAAGACAATGAAGATAAAGGACCTGCC
GCCAAGATCACCGATGAGGAAACCGGTGCAGAGGCCTTTACCGATACCGACAATCCCACC
GAGGAAGACGGTCTGCAAGGAAGTGCAGAGGCGAAGGCGCAGACTACTGGAAAGGTAGGT
ACTGCCGGATCCGGCGACCCCTTTTCGCTCC

>RXA01849-downstream

TAGGCATTTGCGCCTGGCGTCCA

>RXA01868-upstream

ATGCGGATCTGAACAGGCTGTCTGTTGCTAACTCATCGTTTTTCGAGCTGCTCTCGGCGA

ACTGGACCGTGAAGGCGTTGGCGCGCCAGTAGGTTTCTGG

>RXA01868

GTGGAGAAGGATTCTTCTCTCAACGAATCCGTGCGCTATGTCATCCAGTCCGGCCTCGGC
CTGCCCCGATGAGGCTTATTACCGCGAGGAGGCACACGCCGAACTCTCGCGGCCTACAAA
GAGCACGTTGAGCGCATGCTCGGCTACTTGGATAACAGCCGCTCTTCGGTCTGTGCGGCT
GCTTCCGCTGCCGCACGAATTGTGCGCCCTGGAAACGAAATCGCTGCTGGCCACTGGGAT
GTCGTGAAGACCCGCGACGCCGTAGCCACCTACAACCCACCGAACTCGGCGCGCTGCCA
CCAAAGGTCCGCACGCTGCTCAGTTCGCGAGGCCTCCCGGACCAGCGCCTGGTATCGATG
ATGCCGTCATACCTCGACCACCTCAACGGCTTGCTTGTGACGACCGCCTCCCCGATTGG
CAGCTATGGGCAACCTGGCACATCTTGAGGTCTCGAGCAGGACTGTTGACCGAGGAAATT
AGCCAAGCAAACCTTCGACTTCTATGGCACCAAACGTGTCGGGCGCCACCGAGCAAAAAGAT
CGATGGAAGCGTGCTGTGCGCCTGGCAGAGCGCATGGTGGGCGAGGAAATCGGGCAACGA
TTCGTGCAAGGCATTTTCTTGCAAGCTCCAAGGAGCACATGCTTGAGCTCGTACGACTAC
CTGGTTGCCGCTACCGTATCGCATTTCCAACCTCGAATGGATGACGCCCCGCCACCCGC
GAGCGTGCCCTGGAAAAGTTGGGCAAATTCACGCGAAAATCGGCTACCCCGACAAGTGG
CGCTCCTACGAAGGCCTCGAATTCGGCTCCGACCTGGTGGACAACTCCCGCAAGGGCTCC
GCGTTCTCTCCATGACTATGAGCTGGGCAAGATCGGCAAACCAGCCGACCGCGACGAATGG
GTCACCACCCCAACACCGTCAACGCCTTCTACAACCCCGTGGTCAACGACATCACCTTC
CCCGCAGCCATCCTGCGCGCACCATTTCTTCGACCCCGAAGCAGAAGCCGAGAAAACCTTC
GGTGCAATCGGTGCTGTGATCGGACACGAAATCGGCCACGGCTTTGACGATCAAGGCAGC
CAATACGACGGCGACGGCAACCTCAACTCCTGGTGGACCGACGAAGACCGCTCCGCATT
GAGCAGCTCACCTCACGTCTGGTCACCCAATTGAGCGGACTCGTCCCTGCCGTCTTGACC
TCTGAAGGAATCGACACCGACGGCGTCAACGGTGAATTCATCTCGGCGAAAACATCGGT
GACCTCGGCGGATTGGGCATCGCTGTGCTTGCCTACGAAAAGTACCTCGCAGACCGTGGC
CAAACCTTTGAAACCTCACCGTCCAAAATTCGAAGCAGAAGGCGCGAGGAAGGCCTG
GCCGAGCAAGAATTCAACGGTCTCCAACGCCTTCTCCTGTCTGGGCTCGCGTGTGGCGC
ACCAAAATCCGCCCACAGATGGCCGTCCAATACCTGGCCATCGACCCACACTCCCCTGCA
GAATTCCGCTGCAATGTCATCGCCGAAACGTGCTGAATTCTACGAAGCATTCGACGT
CCCGAAGATGCACCTGTGTACATCAAGCCAGAAGAGCGCCTAGCTATCTGG

>RXA01868-downstream

TAGTTGTTAGTTGGTATTGAAAA

>RXA01869-upstream

TGACAGGCTACCTTCTGGGGTGGACATGATCCCCAACGCTCAACCCACTTGTGGCACCAA
CCACAAACCTGTGGCGGTAAATCCCCTAGAGTAGGCCAC

>RXA01869

ATGAAGGATCTTTATCGCTTTGTCAATGGCCTGTGGCTTGACACCCACATCATTCCCGAC
GATCGCGCGGTGGACGGCACGTTCCACAAGCTGCGCGATGATGCTGAAGAAGACGTCCAT
GAGATCGTCAAGGAAGACACTGGACGCGCAGGCACACTTTATGCCTCATTTATGGTACT
GACGCCATCAACGCTGCTGGTGTGACCGCTCGATGCGGATCTGAACAGGCTGTCTGTT
GCTAACTCATCGTTTTTCGACGCTGCTCTCGGCGAACTGGACCGTGAAGGCGTTGGCGCGC
CAG

>RXA01869-downstream

TAGGTTTCTGGGTGGAGAAGGAT

>RXA01885-upstream

GTGGCGTCGACGGGATGTTCTGCGGCACCATTTTTGCTGAGGTGGAACCTCACGGATTAA
ACACGGATTTTTCTAAGGTTAATCAAGTAAGGTTTACCTT

>RXA01885

ATGACTACGAAACCTATCATCCCAGAATCAACCCACTCCGCAGAACGTGCTGGTGGACAT
TGGATCCTTGCCAGGCTTGAAAGAAAGTGCTGCGCCCTGGAGGTCGTGAAACAACGCAG
TTCTGCTGGAGAACCTTTCTTTGACCGGTGCTACCGTGGTGAATTTGCTCCAGGACTT
GGCGTGACTGCACGTGACATCCTTGGCAAGGGTCCGGCTCGCTACATCGGAGTGGATAGC
GACGCGGATGCATGCGCAATGTACGTGCGATCTTACCTGCTGGTCTCACGAGGTGCGC

AATACAAATGCCACCGATACTGGCCTTGAAAGCGACTCGTTTGATGTTGTCATCGGCGAA
GCGATGTTGACCATGCAGACCGATAAGCACAAAGTTGGAGCTGATGCGCGAGGCAGCTCGA
ATTCTGAAACCAGGCGGGCTGTACGGCATTACAGAGCTGTCGCTGGTGCCTGACAATGTC
TCCACTGCGGTGAAAGAGGATATTGCTAAGGCGCTGGCTCGTTCCATCAAAGTCAATGCC
CGCCCCATCACGGTGCCGGAATGGGCTGCGTTGGCGCGTGAGGCAGGGTTTCGATGTGATT
AATATTCGCCAAGCCGACATGGCCCTTCTATCCCTCAAGCGGAACCTGAAGGATGAAGGG
CTAAAGGTGTCTTCACGATTGTGAGGAACGTGATTAGCCAACCGGATCTGCGCAAGCGA
GTGCTCGGAATGCGAAAGACTTTCACCGAGCATAAAGATCACTTAGGTGCGGTTGGCATC
ATTTTGCAGAAGAGAGCCCAA

>RXA01885-downstream
TAGGGATCTGAAATGGAGGGTG

>RXA01914-upstream
GGTTTTGAGGAATGGCTAGGCTTGTTAAAAGTTAGTTTCAATTTGATGCCTCCCCAACCC
AAAGCGGAGACACAACCTTCAACGAGAGGACTCAGCTTTCA

>RXA01914
ATGGCGAAAAATGCCTACAGCACAAACAGCACCAACCAAGGTGTCCAAGGATGCCACTCTT
CCAGTTTCGTGGAACGGTTCGCTGAACCTCAAGCTCGAAAAGAAGTTGCCAAAGAAGATTGAT
GCCATCATCGTCGCGGATTTTGAAGGCGAAGATTCCATCGAACTCGCCGGCGGCGAAATC
CTCGATTTTCATCTTTCAGTACCGAGCAGCAGGCCGACATCCTCACTCAGCTCGAAGCTGTC
GGCGCAAAGGCCACCGCAAACAGCATCACCCGCGTCCCAGGCACCGACGTTGCGCCTGTC
ATTGCGGTTGGTTTGGGCAAGGCTGATTTGCTTGACGACGAGACCCTCCGCGCGCTTCC
GGCACGGCGGCGCCGCTCCCTCGGTGGTTTTGAAAATGTCGCCACCACCATTGGCGATTTG
GACTT

>RXA01918-upstream
TTGGTACGGGGGTTAACAACTAGCTTTGTATCTGAAGGCTTCGGAGATTTCTGTATAC
ATCAACAATTGCCCTTTAACCAGGAGTATTCTTAGCTTCT

>RXA01918
ATGACTCCTGATCTTGCAGCTTTTCTGGACAACTTTATGCCGAGGGGCAGGAATTTGAT
GCAGAGCAACCGGATCGGCTTGATCGCAGGAGAAACCTTGAATCTGAAAAGCGCTGCGCTA
CTTCGCTCGCTCATCTACGGAATTAGTCCAAAGTCAGTTCTCGAGCTAGGCACATCCAAAT
GGTTACTCGACTATTTGGATGGCAGATGTCGTGAATTTAACAACAGTAGACAATGATCCT
GAGCGGTCTTTGGATGCTGCAGCAAACCTTCGCGCCGCTGGAGTTGAAGAAAAAGTTCAA
CGAATCGTCGCCGATGGAGCAACCGTACTTGCCGATTCCGCCGATGAACAATGGGATTTT
ATTTTCTCTTGATGCCGAACAATCACTCTATGTAAATTGGTGGCCTGACCTGCAA

>RXA01918-downstream
TGAGTTCTAGCAAATGGCGGCTT

>RXA01932-upstream
TTTCTAACCTGCATCCAAGCCTAGGTGGAATTGAGATGACGCGTCGTAGAGATCGAAAAC
TCAACCAAATTTCTTGCCTAAGGCTTCTAGGATTGTCGTT

>RXA01932
ATGCTCCTTACCCAGATGCGCAGTTTTATATCGATACCTTGCCCACTCTCAGCGCGGAG
GAGCAGGTGAGTTTTGGTAAAGACGCTCCTGTTTCAGAGGCTGATGCAACCCATGTGGCG
ACAGATCAAGATATTGCTGGGGTGCCGGTGAGGGTTTATACGCCTTTATCTGGGGCTGGG
GATTTGCCGTGTTTGGTGTACTTCCACGGCGGTGGCTGGTCCGGCGGCACCCCTCAACATG
ATCGATGCCACGGTTCACCTCTAGTGGTTGGCCTGCCGATCATCGCCATCAGCGTGGAC
TACCGACTTGCACCCGCACACCCATTTCCAGCGGCTATCGACGACGCGTTTGCAGTGGTC
AGTGCCGTATTGAGTGGGGTGTCTGGGCTGAGTATTGATACTTCCCGAGTGGCAATTGGC
GGTGACAGTGCCGGTGGAATATTGCCGCGGTTACTGCACAACAGCTGCGTGAACGGGCT
GTGGGTTCTACTCCTGTATTGGCTCACCAGGTGCTTATTTTCCGGTAACTGATGTTTCC
ACTACATCTACGCCGAGCTATCTCACATTTGGCAAAGATTGCTACCTGACAAAGGACGCG

ATGGAACGCTACATCGAACAATATGCCGATGGGCACGACCGCACCGACCCCTCGACTCTCA
 CCGCTACTGGCATCTGATTTGAGCGACCTCCACCCACCACCATTGTGTACGGCGAATGC
 GACGTGTTAGCCCATGAAGTGCGAGCCTATGGACAAGCTCTACTAGAGGCTGGAAATTCC
 GTGACGATGACTGAATTCAAAGGACAGATCCACGCCTTTATTAACCTAGGGGGAATCAGT
 TCCGATGCGCGGGCTGCTCGACGACTCATCCGCGCCGAATTGGAAGCAGCACTTTGT

>RXA01932-downstream
 TAAAGGTTGAGATTTAACATTCCG

>RXA01933-upstream
 CTAGAAGCCTTAGGCAAGAAATTTGGTTGAGTTTTTCGATCTCTACGACGCGTCATCTCAA
 TTCCACCTAGGCTTGGATGCAGGTTAGAAAGGAGCCTTCG

>RXA01933
 ATGTCTAAGACTCGTACTTTTCTGTTTGATCTTTATGGTGTTCATCAAGGAGCATGGT
 GCGGCGCAGTTTGTAGCGGGTTGCGCGTGCGGTGGGGGAGCCGTCCAAGAACGACAAGCTG
 CATGAGGTTTATGAGTCGCTTCGTCTGGATCTGGATGCCGGCCGCGTGAGTGAGGTGAAT
 TATTGGAATCAGATCAAACCTATTGGTGGGTTTGGAGTTTTTGGATATCCAGGAGGTCATC
 GCGGCTGACTACAGGGGCCTTTATGAGCGTGATCAGGACATGGTTGATTATGTGTTGTGCG
 TTGAAGGCGAAAGGCCACCGCATCGGAATTTTGTGCAATATTCCGGAGGGGTTGGCCAAG
 CTGTTGAAGGAGCACAATTCGGAGTGGCTTGATCAGCTTGATGCGGTGACTTTGTGCGTGC
 GATATTGGCGCGGCGAAGCCGGAGCCGAAGTCTTCCATGTGGCACTTGAGGCCCTTGGT
 GAAAAAGCTGAGGATGTGACCTTTATTGATGATCGCGTGCGTAACATTGAGGCAGCGCGC
 GAAGAAGGTCTCAGCACAATTCACCTTACTGGCTTAGATTCTTAAAAGAAAGCATTTCAG
 GAA

>RXA01933-downstream
 TGACACCTCAACCACTGATTTTG

>RXA01934-upstream
 TTATTGATGATCGCGTGCGTAACATTGAGGCAGCGCGGAAGAAGGTCTCAGCACAATTC
 ACTTCACTGGCTTAGATTCTTAAAAGAAAGCATTTCAGGA

>RXA01934
 ATGACACCTCAACCACTGATTTTGCCTTTCGGCGATAAAGTTCCGCGGATCCATGAAAGC
 GCATGGATTGCCCCGAATGCCACGATTATCGGGGATGTCGAGATTGGCCCCGATGCGTCC
 ATTTTTTATGGCGTTGTCTGCGCGGTGACGTCAACAAAATCACCATCGGCGCCCGCACCC
 AACGTCCAGGACAATTGTGTTCTCCACGTCGATGGCGATGCGCCGTGCACCCCTCGGCGAC
 GATGTCACGGTGGGCCACATGGCGCTTGTTCACGGCGCGACGGTGGGCAACGGCACGCTT
 GTCGGCATGAAATCTGCGCTGCTTTCGGCGAGCCACGTGCGCGCCGGCGCACTCATTGCC
 GCTGGTGGCGGTGGTGTGGAGGGCCATGAAATCCCGGCGAAAGCTTTAGCGGCGGGGTT
 CCGGCCAAAGTGCGCAGATTGCTTGACGACGCCAGTCCCAGTCATTTATCCCCACGCG
 GGCGCTATGTAGAAACATCAAAGCCCAGGCTTCATCGCGGAAGCACTGAGCTTAGAT
 GAGGTTAGGGTACGAGAG

>RXA01934-downstream
 TAAGTGGCTCGTTGAGTAGTCGA

>RXA01967-upstream
 GATGCCACCGTTGAGGCAGACAAAACGTGGGTGGACCGCAATGGGTCCGCTCATGTGGA
 GTTGTGCGCAACCGTGCCACCGCAAACCCCAAACGTAC

>RXA01967
 ATGCGCATCCAAAGCCCCATGGAAATTTCTGGAGTGAAGCGGTGCGCGAAGGCGGGGAG
 CATTCCGCTCGCCGCTGTGGTGACATGGCTGTGTCCGCGTTGGCTAAGCCGAATCCCATC
 ATTGACGATGATCCGGAAGGCAACCCCGATGTTTGCATGTATACCTGGATCGTTGAGTGT
 CCCGGCGCTACCGCAGTGCTGCTATGGATCAATGGGGTTTTTGATCACGAGCGCATTGAA
 GAATCTGAAATGACCCGCCCTCGAGGGCTCTGATCTGTGGATTCTCAGCTGCGTATGCCT

TCCGATTGGCGAGCCAGCTACACCGTCAACGCCTGGTCTGGCGACGGGGTTGCGCCATGG
CGTGAGGCGGGCGATCGGATGCATATCCGCAAAGCCGCGATGTCGGGTGGGCGTCCGGAT
TCCCGCGCGATGGGTTCATATCATGGATTCTCGCTCGTTGAAGGCCCTGATGCGTTGCCG
GACTGCTGGGTTCGCGCGTCGACAAGCGTAAAGTCTGGAAGAAACCGTCGCCGGCGAG
CATTTCTGGTTCTATGAGGCGCCGGTCAAGGCGCCGCTGCTGGTGCTGTTTGATGGCCAA
CACTGGAACAACAGCATGAATCTGCCTGCGCAGGTGATGCGGCCATCGCCATCGGCTTG
CTGCCGCCGGTCAAGCTGCTCATGATCGATTCCGTCACACCGAACCGCCGCTGGGATAGT
GTCGGCGTGCCAGGTGGGCGAGTTGATGTGCTTATCGACGCCCTCCTCCCGCACGTCCGC
GAAACCTACAACGTTTCCGCGCGCGGCGAAGACACCATTTGTACCGGTGCAAGCTTCGGC
GGCCTGGCGTCCCTGTGGGCTCTTGGCTTTCCGACGGCGAAGTCCGCCACGCAATCGCG
CAATCGCCAAGCCTGTGGCGCTTCAACGTTGCCGACGCGCTTTCTGCAGCAGAGCAGTGG
AGCTCAATCCACCTGCAAGCTGGAATAACGAAGGTGAAATGCTGCGCCTGTCGCATCAG
CTCGCCGAAGATCTCTCCGGCGACATCCGCGAGGTTCTGTGTGCGCGGCGTGCATGGCGGC
CACGATTGGGCTGGTGGCGGGTGCATATGCTCACCGAACTCACAGGCTGCTTAAAC
CTC

>RXA01967-downstream
TAATCAAAGTAGGGTGCAAAACG

>RXA01971-upstream
AGGTCTTGTATTATTTCCGCTACTGATTAGTAGCTGCGCTCCGATAGGATTCTTAGTTTT
CAGTTAGTATCTTTGAGCCACGGCTAGAATGTGAATCCT

>RXA01971
ATGTCTAAGAAGAGCCTCGCCCCATTCCGGTTCTTGCCCAATTTATCCCTGGTCTCATT
GATGCGCATACACATTTGGCATCGTGTGGAGGAGATCTTGACGGGTGGTGAAAGGGCC
AAGGAGGCGGGCGTCGAAAAGCTTTGTACCGTCCGTGATGGTTTGGCTGAGGCCGAGCTT
GCGCTGGAGGCGCGCAACAGTTTGGCAATGTGTTTCTGCTGCGTGCGATTTCATCCGACG
AAGGCTGATCAGTTGGATGGGCTGCGCGTGCAGCGGCTGACGCAGATGGCGGCGGATCCG
AATTGTGTGGCCATTGGTGAGACTGGTTTGGATTCTGATTGGATCAAGCACGATCCAGAG
GACACGGCGGCGTGGATGTGCAAGAGGAGGCGCTGCGCTGGCATATTGATTGGCAATT
AGTGCGGATAAGCCGTTGATGATTACAAATCGTGAGGCGGATGCTGATTGATGCGAGTG
TTGGCGGATGCTCCACCTCCAAAAGATACGATTCTGCATTGTTTTCTTCGCCGTTGGAC
GTGGCGAAGGAAGCGTTGGATCGTGGATATGTGTTGAGTTTTGCGGGCAATGTGACGTTT
AAGCGTAATGAGGAGTTGCGGGAGGCTGCTCGTATTGCGCCGATTTCCAGATTTTGATT
GAAACCGATGCGCCGTATATGACGCCGAGCCGTTTCGGGGAGTAGGAATGAGCCGTCG
TTGATTGGTCATACGGCGCTATGCATTGCGGAGGTTTCGGGGATGGCTGTGGAGGATGTT
GCGGCGGCTTTGAATGAGAATTTTGATCGCGTTTATGGGGTCACAAATCTA

>RXA01971-downstream
TAACGTGAGGTAGCTCACAGTCA

>RXA01993
GCTGGAAGTGGCGCGCAGGATGGCGACCGCAGCCAGGGCGTTAATGGGTATGTCATGAAC
ACCATTACCCAGATTGATCGTCTTTTCTCATTACTTCTGGGCATTCATGCGCAACTAC
CGCCTGGAAGCCAAACCATCACCCAGCTGCGCGACGGTGTATCCGGTGTATTCAA
GAAGACGAAGACATGCTGACCGCTCAGCAAGATGCCATCGACGCCAACACCGACTACGAG
TTTTACAGCCTCAACATTGATGCCGGTGGCATGTGGGTGCGCCGAATCCTCGAGGAAGCA
CTCTCAAGGAAGGCCGACTGGATATCCCCACCACATTCCCCCGCGCAACACCGAAGCCG
GAGGCA

>RXA01993-downstream
TAAACCATGAACTCGCAATGGCA

>RXA01994-upstream
GTGGGTGCGCCGAATCCTCGAGGAAGCACTCTCAAGGAAGGCCGACTGGATATCCCCAC
CACATTCCCCCGCGCAACACCGAAGCCGGAGGCATAAACC

>RXA01994

ATGAACTCGCAATGGCAAGATGCACATGTTGTTTCCAGCGAAATCATCGCTGCAGACATT
CGGCGAATGAAGTATCCCCGAAATTTGCGATTCCAGTAAAACCCGGCGAACATCTCAAG
ATCATGGTGCCCCCTAAAACTGGACAGGAAAAGAGATCGTACTCCATCGTTGACGCTCGT
CACGACGGTTCGACTCTCGCCCTGAGCGTACTCAAACCAGAACTCCCGTGGAGGATCT
GAGTTCATGCATACGCTTCGAGCTGGAGACACAGTTACTGTCTCCAGGCCGTCTCAGGAT
TTTCTCTCCGCGTGGGTGCGCTGAGTATGTACTTGTGCGCGCGGAATTGGAATCACA
GCGATCCGTTCAATGGCATCTTTATTAAAGAAATTTGGGAGCGAACTACCGCATCCATTTT
GCAGCACGCAGCCTTGATGCCATGGCTTACAAAGATGAGCTCGTGGCAGAACACGGCGAC
AAGCTGCACCTGCATCTAGATTCTGAAGGCACCACCATCGATGTCCCAGCATTGATCGAA
ACCTTAAACCCCCACACTGAGCTTTATATGTGCGGCCCCATCCGCTTGATGGATGCCATC
CGGCGCGATGGAACACCCGCGGACTTGACCCCAACATCTGCGTTTCGAAACGTTTGGA
AACAGTGGATGGTTCTCCCCAGAGGTTTCCACATCCAAGTACCAGAGCTGGGGCTTCAC
GCCACAGTCAACAAGGATGAAAGCATGCTGGAGGCTTTGCAAAGGCTGGGGCGAATATG
ATGTTTGATTGTGCAAAAGGCGAATGTGGTTTGTGCCAGGTTTCGCGTTCTAGAAGTCGAT
GGCCAGGTTGATCACCGCGATGTGTTCTTCTCTGATCGTCAAAAAGAATCCGACGCAAAG
GCATGCGCCTGCGTGTCTCGAGTAGTCTCCTCCCTTCCTCGTCCCCAACCTCGACCATT
ACGGTCGCCCTCTCC

>RXA01994-downstream
TAAAGGAGCCTGGCATGGATATC

>RXA01997-upstream

AAAAAGGTGGGAACTTAGCCAATCCAAAGCCCCAAAATGCGGGTTATGCTGCGCTAACCT
TATGCTGACAGCCTTGCGGAAGTTGTGTACGTTAGGGGCC

>RXA01997

ATGACAATCAACGAGAAGATCGCATCAGCTTTCAACAACCAAGTGACTGCAGAGCTTGAA
GCTTCAATGGTGTACCTTCAGCTCTCCTACGTTCTAGACGATCTGGGCCCTCACCGGCATG
CGGACTGGATGAAGGCACAGAGCAAAGAAGAGCTCGAACACGCACAGAAGTTTCGCTCAG
CACCTTCTTGACCGTGACTACCCCCACAGATCGGTGACATTGCACCACCAAAGCTTGAT
GTCACCTCCGCTATCGAGGCTTTTCGAGGCTTCCCTGGCACACGAGCAGAAGATCTCCGGC
CTGATCCGCGAGCTCGCTGCCATCCAGGACGCTGAGAAGGACTACGATTCCCGCGCACTG
ATCGACTGGTTCCCTCAACGAGCAGATCGAA

>RXA02000-upstream

CAACGAAACAAATGCAAGCCCCCAATCATGGGTTTCTACCAATTAAATTTTCTTTTCAGAA
AATATCTCCCCACATAAAAGTTCCTTGATAGGCTCGAGAG

>RXA02000

ATGAAAGTGACCCAAAGCACATTCCTTAAATCGGTAGCTGCGTTCCTGTGCGAGCCTTA
ACCCTGACCATCTCTTCGTGTTCCAGCGGTGAAGACACCTCCGCAAGCTCCACGGATACT
GAAAACCTCCTCAACCCAAGCAGCAGCGTCTCCCCACTTGCGCCTTGTGAATTTCCCGCC
GACGCTTCTGCTGAAGAGGAAGTAGAAGGCACTCACACAGGTGAAGATATTTCTGTTGCC
CCGGAATCGGTACCGGCTACCGCGAGGGCATGACCCCTGTTCAAACCCAAGGTTATGCG
GTGGCAACTGCAAACCCCATCGCTTCTGAAGCAGCCTGCGCGGTGTTAAGAGAAGGCGGC
ACTGCAGCTGATGCTCTTGTACCGCGCAGTTTGTGTTTGGGACTGACGGAACCGCAGTCG
TCTGGCCTTGGTGGTGGCGGATACATTCTGTACTACGACGCCGAAGCCAATGCGGTGACA
GCCATTGATGGCCGTGAAACAGCG

>RXA02010-upstream

CCTGAATAAACCCCTATTTTCTAAAAAGTACACTTTGCCGTATAGAAATTCAGTCAACC
AAGAGTACTCTGTCCACC

>RXA02010

ATGGTTTTTACTCTTGCGGACTCCGTCTCCCAGGTTGCGCTAGGTCCGTCTGGCTGGAC
CCTATGGAATCTTTCCGGCTCCGGCCCGTTCCGGTAGCTTCATTCTTCCGGCGATGCTT
GCCATTGTCTTTATCGAATCAGGCCTACTTTCCCACTTCTACCAGGTGATTCTCTCCTT

TTCACCGGTGGTCTCCTAGCTAACCAGGCTGACCCTTTTGCACCGCTGTGGCTGGTGCTG
 ATCCTCTGCCCTATCGCCGCAATTCTTGGCGATCAGGTGGGTACTGGATTGGCCACAAG
 TTCCACCCTCGCCTGGTCAATCGTCCGGATGGCAGGATTTTCAAGCAGGAATACCTCAAG
 CAGACTGAGGATTTCTTTGAGAAGCATGGCCCCGTGACGATCATTTTGTGCCGTTTCGTG
 CCCATCGTCCGTACTTACGCACCTCTG

>RXA02012

TTCACCATGACACTGTCCGAACGCAAGCTCACCACCACCGCCAAGATTCTTCCCCACCCA
 CTCAACGCCTGGTACGTGCGCGCTTGGGATTATGAAGTCACATCTAAAAAGCCCATGGCC
 AGGACAATCGCCAACAAACCACTCGCTTTGTACCGCACCAAGATGGCCGAGCCGTTGCC
 CTTGCAGACGCCTGCTGGCACC GCCTCGCACCGCTATCCAAGGGAAAACCTCGTGGGCACA
 GACGGAATCCAATGCCCTTATCACGGCTTGGAGTACAACTCCGCGGGCCGCTGCATGAAA
 ATGCCCCGCGCAGGAAACCCCTCAACCCGTGAGCAGCCGTCAACTCCTACCCCGTGGTGAA
 GCCCACC GCCTTTGTGTGGGTGTGGCTGGGCGATCCACATTGGCAGATCCCAACCAAGTA
 CCCGATATGCACCAGATGAGCCACCCCGAATGGGCAGGCGATGGACGCACCATCTCCGCT
 GACTGCAACTACCAATTAGTGCTGGACAACCTTGATGGACCTCACCACCAAGAGTTTCGTG
 CACTCCTCCAGCATCGGACAAGACGAACCTTAGTGAATCAGAGTTTCGTGGTCACCCACACT
 GAAGATTCCGTGACGGTCACCCGCTGGATGCATGACATAGATGCACCACCGTTTGGCAA
 AAGAACATG

>RXA02016-upstream

ACATGGAGCTCATCCGCAGCGGTCCACCAGCAGAAATGGTGGGCATCGGCACGCCTCTAC
 CGTTCCCCACCTCACAACCGGACATTCACTAGGACACACT

>RXA02016

ATGTCAAACCTTTGAAACGTTCTCTGGGTTGCCTACCCCTGGCTGTGTATCGCCGCCTAC
 ATCATCGGCATTTCTTGGCGCTGGCGCGCCGACCAATTTCGGTTGGACCAACCACTCCTCC
 CAAATCTACGAATCCAAACTCCTCCGCATCGCCTCCCCACTCTTCCACTGGGGCATGGTG
 TTCGTGGTGATCGGCCACCTCATGGGACTTGCCATCCCCAAGAGCTGGACCCAAGCTGTA
 GGAATTTCTGACGCCGCTTACCACCTCATCGCCACCATCCCAGGCACCATTTGCCGGCATC
 GCTGCAGTCCTTGGACTCATCGGCTTGATTATCCGTGCGGTGATCAACAAAACCGTCTTC
 CTGTCCACCTCACGCTCCGACAAAGTGATGTATGTGCTACTCGGCGCTGCAATTTTGTCC
 GGTTCATCGCCACCGTCTCCACCCAGGTCTTCGGCGGCGCACACGGCTACGACTACCGC
 GAAACCATCTCCCCATGGGTGCGCAACTGCTCATCTTCAACGCTCAACCAGAGCTCATG
 GCTGATGTCCCTTGGGAATTCAAGGTCCACATCGTTCGCTGGATTACCCCTCATCGCACTG
 TGGCCATTCAACCCGCTAGTCCACGCGTTCTCCGCACCAAGTTGGATACGTCACCCGCCCC
 TACGTGGTCTATCGCACCCGCGACACCACTCTGAACCGGCACGCCAAAACGTCGCCCTGG
 GAACCGATCCGCTCGGTCAAAAATCAGCTCGACAATGACTCGAAATGGCACGGCGCC

>RXA02016-downstream

TAAATTCTCTACAAGCCCCCTAG

>RXA02017-upstream

GCCTGTGGCACGGGAGCTCCCAGCGGCAAGGTGAGTCTGACCTCGTGGAACGTTGGCGAA
 CGCCCCGCTGCGATGTTCCACCAAGGAAGGACTAGGCGG

>RXA02017

ATGCGCACCCATACTGGCAAAATTCCGGATCACTTTGTGCCCTCGCATCTCCATGACGGAG
 GAGCAGCGGCGCGTGGTGTTCATGCTGAATAGTTTGTGTTGGATTATCCAGAGGAGGGA
 TTCGTGACAAAGCTAAATGCCGTGAGGCGCAGCTTGATGTCTTCCGCTCCCCGTCGCG
 GCGCAGTGGTCGAGTTCTTGACGCGGCACGCGTCGCTGGGCTACGCGCCATGCAGGAA
 GCCTACGTTGAGACCTTTGACCAGCGCCGACGCTGCTCACTGTTTCTCACCTACTACGCT
 GTGGGCGACACCCGGCAGCGCGGCACGGCGATCCTCACCTTCCGTCAAACGCTGCAACAG
 CTCGGATTTGAATCCGAGCGCGACGAATTGCCCCACCACTCTGCGTCGTGCTTGAGGCC
 GCAGCGCTTGCTGATTCTTCGCTTTTCGACGCGCGCCACCCAGGTGTTATCAGCTCACCGC
 GACGGCATCGAAGTGTGCGCGCAGCCCTCGACAACCTCGACTCGCCCTACAGATACCTG
 ATCATGTCTTTGTGCCAGGCATTGCCAGAAATCGATGAAGAAACCGCCAACAGCTACATG
 GAGCTCATCCGCAGCGGTCCACCAGCAGAAATGGTGGGCATCGGCACGCCTCTACCGTTC

CCCACCTCACAAACGGACATTAC

>RXA02017-downstream
TAGGACACACTATGTCAAACCTT

>RXA02018
CGCATCTGCGAGCACTGCCTCAACCCACCTGTGTGTCTCCTGCCCATCCGGTGCTATG
TACAAACGCGCCGAAGACGGCATCGTGCTGGTTGACCAGGATCAATGCCGTGGCTGGCGC
ATGTGTGTTTCCGGCTGCCCCACAAAAAGGTCTACTTCAATCACAAATCGGGCAAGGCC
GAAAAGTGTACGCTGTGCTATCCGCGCCTCGAGGTCGGCCAGCCGACCGTGTGCTCCGAG
ACGTGCGTGGGTGCGCTTGGCGTACTTGGGCGTTTTGCTTTACGACGCCGACCGTGTGCT
GAAGTCGCGCCACGCCAGACGAAAAGGATCTTTTCGAAGCCCCAAAAGACCTCTTCCTA
GATCCCCACGACCCACAGGTGATCGCCGACGCCAACGCAACGGCATCCCGCACTCCTGG
CTCGAAGCTGCGCAGAATCTCCAATTTACGATCTCATCTTCAAATACGAGGTTGCCCTC
CCGCTTACCCCTGAATACCGCACCTTGGCGATGGTTTGGTACATTCCGCCACTAAGCCCC
ATCGTTGATGAGGTGACCGCTCCGGCAACGACGGCGAAGACCACAAGATCCTGCTCACC
GCGCTGTCCACCATGCGCATCCCGCTGGAATACCTGGCTGGATTGTTCACTGCCGGTGAT
ACCAGGCCGGTGGAATAATCCCTCCGACGCCTAGCCGCCATGCGATCATATATGCGCGAT
ATCAGTTTGGGCCGGAACCTCAGGAAGAAATCGCAGAGGCTGTGGAATGACCGGCAAG
GTGGTGACGAGAAATGTATCGCATCCTGGCCATTGCCAAGTATGACGATCGCTATGTCATC
CCCCACGCTCCCTGAGACCCCGCGCGGAATTTCTTCCCTGGATCCTTTCGGCGATGTC
GATCCAGCCCCGAGCCACCGAGCAGCTCAACATCGGTTTGGGCGAAGGCGCTCCAGAGGCC
TGTGGCACGGGAGCTCCAGCGGCAAGGTGAGTCTGACCTCGTGGAACGTTGGCGAACGC
CCCGCTGCGATGTTCCACCAAGGAAGGAC

>RXA02018-downstream
TAGGCGGATGCGCACCCATACTG

>RXA02048-upstream
GCGCGGCGGATAACAAGCAGACCGCGTTTTGTGGAATCGCTGATCTACACCTGGATCGAA
AGACTTTGGATCAGCAGGGTAGCATTTAATACCTATGATT

>RXA02048
ATGCGAAGGCTGCGCTCCACCCCGGTCCCTGGTACACGCGATTCTTACACAGGAATTGAT
TTCAACTTAGGCTTCCACATCCGACGCTACGAGCTTGATCTCACCTACCGCGTAGCACCC
AACCTGCTCATGGGCACCGCAACGCTGCACATGGATAATTACCGTGCGCTCGACGCGCTG
ACCCTGGACCTCGGCGGCAGCCTGCGCGTGGAAGTACCGCCAAAGGCACCGCCGCGC
ACCCACATCCCAAGTCGCGCGCTTCCGCCACGCCGCGCCGAAACTGCGCATCACCTTCCGC
AACCAATCCCGGTTGACCAGGAATTTTCACTACCATCCGCTACCGCGGCAACCCGCGC
CCCCTGCGCAGCAATGGGGCATGATCGGCTGGGAAGAGCTCGACAACGGCGCCCTCGTC
GCCGCCCAGCCAAACGGCGCGCCGAGCTGGTTCCCTGCGACGACACGCCCGACGAGAAG
GCGCTTTTCGACGTCCACTTCCACACCGACAACGGATACGCCGCCATTATCACCGGTGAT
TTAATCTCAAAACACGTCAGTGGCAGCATGACCACCTGGCACTACCAATCCCGCGAACCC
ATGGCCACCTACCTCGCAGCCGTCCACGTGCGAGAATACGACACTGTATCCCTGGGCGTT
TCGGAATCGGGCGTTGTGGTGGAGGCGTATGTGCCTGTGGGGGATGCGGCCTTGGGGCT
CGGATTTTGGAGGACTTTGCCAAACAAGTCGACATGTTAGACGCCTACGAAAAACTCTTC
GGCCCTACCCATTCCGCGAGTACCGCGTAGTCATACCGAAGACGAACTCGAAATCCCA
CTCGAAGCCCCAAGGCTCTCCAGCTTCGGAGCCAACACGCCACCGGCGAAGGAACCTGG
GAACGACTCATCGCCACGAACTCTCCACCAAGTGGTTTGGCAACTCACTCGGCCTCGCC
CAATGGAACGACATCTGGCTCAACGAAGGCTTCGCCTGTTACGCGGAATGGCTCTGGTTT
GAGGCAGCTGGAGTTAAGTCGGCTGCGGAAAGTGCGTTGGAATTCTATCGAGGCCTGGAG
GCGCTGCCGAAGGATATTTTGGTGGCCAACCCCGCGCGGAAGGATATGTTGACGACCGC
GTCTACAAGCGCGGCGCTCTGACTGTCCATGCATTGCGGGAATTGCTTGGCGATGATGCA
TTCTTCAAAGCTGTGCGCTCTACGTTGCCGAAGGCCGACACGGACTCGTTGAACCCCGC
GACCTGAAACGACACCTCTACGCGAGTCTCCACAGACCACGAGCTTTAGATGCAGTGTGG
CAGTCTGGCTTCGCGATCTGGAGTTGCCGGAGTTTCCTTCTGGTGGTTTGGAC

>RXA02048-downstream
TAGTGCGCTATCTGACGCTGGCC

>RXA02052-upstream

CCTCGGCGTCGCACTCCTTCTAAGCTCCTGTTCTTCAACATCTTCCGATGAATCAATCCA
ACCTGAAGTTGCCAGCACTGGATATTCAGTGGAGCACGCA

>RXA02052

ATGGGCACCACCGAAATCCCTGAAACCCCAACGCGTGTGGTCGTCATTGATTCCCCACAC
CTCGACGCACTTTTGGCTTTGGGAATTACTCCAGTCGGAGCTACGGAATCTGGATCCGAA
AATGGTTTTCCCGCCTACTTGGCTGACGAGCTAAAAGACACCGAATCTGTTGGGCTGACA
TCTGAGCCAAATTTGGAAAAGATCGCCGCACTGGATCCGGATTTGATCATTGGCGCAAAG
GTCCGCCACGAGGCTATTTATGATCAGCTTTCAGACATCGCACCAACCGTGATGTCCGAA
GGTTCGGGCACAACTGGAATGAACAGGCAGAAATCACTGCGGCAGCAGTAAACAAGTCT
GATGAGATGGACAACTGATCTCAGACTTGGACACCCGTGCCACAGAGCTTGGTGAAGAG
ATCGGTGCTGACGGACAAACCGCTTCAATGGTTCGATTCCGCACGGACAACCTTCAGGCTC
TATGGTCCCAGACCTTCTCTGTTTCAGTTCCTGGAACAAGTTGGATTTGACCTGGGGGAA
CGTGATTGGAATGAGTACTCCATGATGGAGCTATCCTCAGAAAACCTTTGGGCAGATCGAT
GGAGACCTTATTTTCTACACCATCCCAGGATCCCCTGAAGCAACCACTTATCCAAAGATT
TCCGAACCTGTGGGTTGATTACCCAGCAGTTCGGCAAGGTAGAACTTACGAGTTTGAAGAC
GAAACCTGGATGGTCGGCATCGGTGTATTAGGTGCCAATGAAATCTTGGATGACCTGGAA
GAAACTCTGAGC

>RXA02052-downstream

TAGTTTCCTTTAGGCCAAGCAAC

>RXA02064-upstream

CTAGATTACATCCTGTGCATCTTCTGGCAATTGTGAATTCATTTGCACTTAATGCGTGTA
GGTACTTCACATCTCGCCTGCTCGCTCTAGACTATAACGC

>RXA02064

GTGAGTAACGCCTTCGAGTATCTTCGCACTTATGTGAGTCCACTACTGAAACCGACGCT
GCTGTAGCGCGCGCTCGTGAAGACGCCCGGAGTTCGGTCTCCCCGCCCCGGATGAAATG
ACTGGCCAGCTGCTAACCACCTTGGCTGCCACCACCAATGGCAACGGCTCCACTGGTGCC
ATCGCGATTACCCCGGCTGCCGGGTTGGTGGGCTGTATATCCTGAACGGACTGGCCGAT
AACACCACACTGACCTGCATTGATCCTGAATCAGAGCATCAGCGCCAGGCCAAAGCACTC
TTCCGCGAGGCCGGCTATTCCCCAGCCGCTACGCTTCTTGCTCTCGCGCCCGCTCGAC
GTGATGAGTCGCCTTGCCAACGACAGCTATCAGCTTGTCTTCGGCCAAGTCTCCCCATG
GATTTAAAGGCGCTTGTGACGCGCCGTGGCCGCTTCTTCGACGAGGCGGTGCGCTGGTG
CTCGCCGATGCGCTCCTTGACGGCACCATTGCGGATCAAACCCGCAAGGATCGTGACACC
CAAGCAGCACGTGACGCCGATGAATATATTGCTTCCATTGAAGGCGCACACGTTGCTCGC
CTGCCCTTGGTGCAGGCTTAACCGTGGTGACTAAAGCC

>RXA02064-downstream

TAGAGGGGGACGTGAGAAGCGA

>RXA02083-upstream

TTTTTGTACATGGTCTGTGGCACGCATTGTTTCGTTTGCCCTGCCATGTTGGTGTTTTAA
GTGAAGGCCGCTTTTGCGGAATGGGTATAGGAGGCATTC

>RXA02083

ATGGAGATGGTTATGAAGAATAAGCGCGTTGCGATTATTGGTGCAGGTCCGAGTGGTATC
GCTCAGTTGAGGGCGTTTGAGTCTGCTGAAAAGCAGGGGCATGAGATCCCTGAGCTGGTG
TGTTTTGAAAAGCAGGATACCTGGGGTGGGCAGTGGAATTACTCTTGGCGCACGGGAACA
GACTCTTATGGTGAGCCTGTGCACTCAAGTATGTACCGAAACCTGTGGTCAAACGGTCCG
AAGGAAGTTCTCGAATTTGCTGAGTACAGCTTCGATGAGCACTTCGGAAAGCCAATTTCT
TCTTACCCTCCACGTGAAGTGTTGTGGGATTACATTGCAGGTGCTGCAAAGAAGTCCAAC
GTTGAGAAGTACATCAAGTTCGCGCATGTTGTTGCTGGGTGAGTTTTGATGAGGCCACC
AAGCTGTTACCGTGACGGTGGAGAACCCTCCGCACCGGTGAGACCAGCAGTGATACTTAT
GACAACGTGATTGTTGGCGCTGGACACTTCAGCTTCCCGAACGTCCCTCACTTTGATGGT

GTGGAGACTTTCCAGGTCAGATCATGCATGCTCACGAGTTCCGTGGTGCAGAGGCTGTT
GCTGACAAGGATATTTTGTGATTGGTGCAAGTTATTCTGCGGAAGATATCGGTACCCAG
GCGTACAAGATGGGTGCTCGTTCGGTGACTTTCTCTTACCGCTCAAACCAATGGGGTAT
GAGTGGCCTGAAGAGATGACTGAGCTTCCTTTGGTTGAGCGTTTCGACGGCTCCGAGGTT
CACTTTGTCAATGGTGAAAAGCGCAAGGTCGACATCGTGGTGTCTGTACTGGTTACTTA
CACCATTACCCATTTATGCCGTCTGAGCTGACTTTAAGCTCACCAAACAACCTGTACCCG
GATACGCTTTATCGTGGCGTGGTGTCCGAGGCTAATAACCAGCTGTTCTGGTTGGGTGCT
CAGGATCAGTGGCTGACGTTCAACATGTTTGATGCTCAGGCTTGGTATGTTTCGCGATGTC
ATTTTGGGCCGCGTGGCTCTTCCTTCCAAGGAAGCGCAGCGCAATCATATGGATAAGTGG
CTGTCACGTTTTCGAAGGCTTGAAGTCTGAGAATGATCAGATTGATTTCCAGTGCGATTAC
GTCGAGGATCTTATCGATCAGACCGATTATCCTTCGTTTGATCTGAAGGAAGTCGCGAAT
ATCTTGAAGGGCTGGGTGAAGTGAAGGAGGAGGATATCCTCAACTACCGTGATTACACC
TATACTTCCGTGATGACGGGCACCACCTCTGTTGAACACCACACTCCGTGGATGATTGAG
TTGGATGATTCTTTGGAGCGTTACCTCAGTGAGCCACAGGAAGATGAAGCTCGTCAGGTT
TACCGTGGCAAGAAAGTCCGCGATAAAGCC

>RXA02083-downstream
TAAGGAAAAGGCCTAAGCAGCCC

>RXA02092-upstream
GCATAACTGCATATTCATCAAAGCGTTGCCGGTCACCTGCTTCGTGCCTAGCCTGGGAGG
CATGAATAGTTCGACGTGGACACCTCGGTACTCACCGCAT

>RXA02092
ATGGCTAACAGTGCAGCGGGTTCCGGTGTGGCGGATGAGATGGTGGTTCCACCTCAACA
GGGTTTGTAAAGGCGTCAAAGGACCAGGGCTTAAACCTGGAGGGGAATTCCCTACGGC
CGAAACACTGGCGGAAAATATCGCTTCGGGCAACCCGCGCCGCAAGAAATGGGACGGC
GTGCGCGATTGCTCAATGTTCCGTGAAGTAGCTTCTCAGCCAACGTAATCCTGGACAGAT
AAGATTCGCGGTTCAGAAGACTGCCTTAACCTCGATGTCGTGCGGCCTGATTCCGAAGAA
AAGCTTCCTGTTGTGGTGTATCTCCACGGCGGTTCTTCATCATGGGCTCATCAAGCGAA
AAAGCGCTGCGCGGATATAACCTCGTCACAAACATGAATGTGGTCTACGTGTCCGTTAAT
TTCCGCCTCGGCGCTTTGGGCTATCTAGATCTGCGTTCCGTGGGGGAGGATTGCGTAGCC
AACCCCGCGCTCCACGATCAGCTCCTGGCCCTGCAGTGGGTGAGCCGTAATATCAAAGCA
TTCGGTGGGGATCCTGACAACGTACCCCTCATGGGCGAATCCGCGGGCGCTGCAGCAGTG
GTTGCACTCATGTGTGTGCCCGCTGCAGGAGGACTATTCACCGCGCCATCGCCCAATCC
GCGCCGGTCATCTCTGTGCACTCATCTACCCAAGCAAAATTTCTGGGCACGTGAAGTATC
TACCGCATGGCATTGCCCAGGGAAACCACCTTGGATGAACTGCGCCAAGAATCCGCCGAT
GATCTAGTGCGCGCGGGCAGTCGATGATGTGGCGCTCCGGCGAAGTCTCAACTCAAC
TCTTGTTACGGGGCCACGGTGGATGGTTTCTTGCTACCTGAGCACCCGCTCACCATGTTT
GAACAGGGAAGACAACACCGCATTCCCTTCATGATCGGTACTAATAACGGAGAACTTCT
TTCTCAAAGCCTTTTATTTAAGAAGCTCTGCCGACGTCGCTCTGCCTTACGCATGCTG
TCTGTGATGATCCCCACAATGCAGAACGCGTGTTAGCGCCTATGGCGGAGGCGAGGCA
CGCACAGACTTTTCTGAAGTACTCGCTGACGCGCTGTTCTGGGCACCGTCGGTTAGATTG
GCGCAGTCGCACGCCTCCCAAGATGAAGATACCTGGATGTACCGCTTCGATTACGCCCCA
CAATCCATGCGGAACTTGGCCTCGGCGCGATTCACTCTTTCGAAGTCAACGCTGTCTTT
GGCGATCATGAATCTTCTCGCTCCATGAACCTTGCAGAAAATTGCCGGCGGCATGGATCAT
TTGGATAAAGTCACCGAAGTGTCCAAGAGCATTGGAAGCAATTCATCTACTTCCGGCAGG
CCCGGTGAAGAGTGGAAGGCTTACCGCGGGCCGAGCGATACCGAACCAGGCGCGTGTACA
TTTGTATCGATATCAACTCCCGAATCGCGTGGGATCCACGCCAGGACAAACGCACGGCG
TGGGAAAATTACGACATGCTCGAATGGGGCACAGGCCGCCAGATCTAGCCAACGAAGT
GATTTTCATCGAGCGGAAGAGACAGAAGAAGAGCAGCAATTGAAGTGGCTTAGCCTTATG
CAGTTTTTTTGAAGTAGA

>RXA02092-downstream
TAAATGAGCATCTGGAAACGTCT

>RXA02098-upstream
CCCCATTTTCGGCGACCTCGACTCCATGAAAGCAAGAGTTTCACCACATTTAACGTGGGGT
ACCTGTGTGCATCGGGGTCAAACCTGCCACTATAGAGGGT

>RXA02098

ATGGATGCGACTTTTTGGATCATTGGACTAGTAGTCCTCGTGGTTCTCGCGATCATCATT
GTATTGATCGTAGGAAATCAGCGAGGTAATCAAAGACCGTTAGTTTTGAAAAACCTGAA
GAGAATAAAAAAGAACTAACCAGCAAGAGAAGTCTGGAAATTACCAAGCCCAAGGTGGA
TTCAACTTCGCCCCAGCTAAACAAACAGAAAGAGCCAGTGTGCGTGAAGGCCAAGATCTT
GGCGCACCAAGGCTGAAACAACACCGATTGTTCCACCAGTAGTTATTCCGCCGGCAGCT
CCTGAAGAGGAAAAGGCGCCGGAGCAATCGACTGAAACTTTTCGAGCTCAAAAGCCTGCT
GAAGAAGCACCTGCAACTCCTGAACCAGAAACCTCTGATGATGTTGTCGAGGAACCAGAA
GTTAAGGAGCCTGAGGTTAAAGAAGTTGTCGCTGTTGAGCCAGAGGTCGAAACTGAAGAG
CCAGCAGTTGTTGAAGAACCTGCAGTAGCAGAGGAACCAGCAATTGTTGAGGAACCTGCA
GTAGCAGAGGAACCTGCAGTAGCAGAGGAACCTGCAGTAGCAGAGGAACCAGCAATTGTT
GAGGAACCTGCAGTAGCAGAGGAACCTGCAGTTGTTGAGGAACCTGCAGTAGCGGAAGTT
CCCGAAACAATCGAAGAACCTGCAGTTGAAGAACCTGCGGCAGTTGCTGAGGTCACCGAG
GCTGCAGAGGCTGCTCAGGTTGCTGTGGAATCTGCGGAAGCTGCGCTGGAGGAAACTCCA
GTTCCAGATGTGGAGCCCGAGCCAGCTGCGGAGCCTATTGATGAGATCGTGCCGGCGGCG
GGTCGTATCGGTAAGCTGCGTGGTCTCTTTCTCGGTACAGAGTGTTTTCGGTAAGTCA
GTGTTGGGCATTTTTGTCTGCGGGTGACTTGGATGAAGACGCATGGGAAGACATCGAAGCG
ATGTTGATCAAGGCGGATTTGGGCGCCAAGATCACTGCGCGTGTGGTGGATGAGCTGCGT
GACAAGATCGCAGAGCATGGTGTGGTAGTGAGGCAGAGGCGCGTGCGATGCTGCGTGCT
TCGCTGATTGATGCTTGCCGTCTGACCTTGATCGCTCCATTAAGGCTATGCCGTATGAG
GGTAAGCCACCGGTGGTGTGGTTGTTGGTGTGAACGGTACCGGTAAGACGACGACTACT
GGCAAGCTTGCTCGTGTGTTGGTGTCCATGGGTGATAAGGTGATTCTTGGTGTGCGGAT
ACGTTCCGTGCGGCGGCTGCGGATCAGTTGGAGACGTGGGGTCGCCGTGTGGGTGCGGAG
ACTGTTTCGTGGCGCTGAGGGCGCGGATCCTGCATCTATTGCGTTTGATGCTGTGGCTAAG
GGTGTGAGCGTCAGGCGGATGTCGTTTTGGTTGACACTGCGGGTCGTTTGCACACGTCG
ACTGTTTTGATGGATCAGTTGGGCAAGGTTAAGCGCGTGGTGGAGAAGAAGGCAGTGGTG
GATGAAGTGCTGCTGGTTTTGGATGCCACGGTTGGTCAGAACGGTATGCAGCAGGCTCGT
ATTTTCCGTGAAGTTGTGGATATTACGGGTGTGGTGTGACCAAGCTGGATGGTACTGCG
AAGGGCGGAATCGTGTTCAGGTGCAGGAAGAGTTGGGTGTTCTGTGAAGCTTGTGGT
CTTGGTGAAGGTGCGGATGATTTGGCACCGTTTTGAGGTTGAGGGCTTCGTGGACGCTTTG
CTGGGC

>RXA02098-downstream

TAGAAACCCGATAAGCGAGAACC

>RXA02101-upstream

GCCATGGAATGCTCCGTTGAACGCAACAGCCTTAAATACAATCCCCCTCCTATAAGCCAAG
AGTTTTAGTGTCGCTGCGCAGGTACTCTACTATCTAATCC

>RXA02101

ATGAGCCGCATTTTCAGAACTTCTAAACAATCATGGTGTGATCTGTCTGGCAAGAGGCC
GCATATCAGGATTTCCACGAACATCCTGAGCTCTCCGGCTTCGAATCAGAGACCGCAGAT
CGCATTCAGAAATACCTCGAGCGTTTTGATTGTGAGGTGATTCCAAATGTTGGCGGTTAC
GGCATTCTGGCCGTGTTCGAAATGGGTGACAGATCCTGGTGCCCTGTTGCGTTAATG
CGCGCAGATTTTCGATGGCCTTCCCGTCAAGGAAATCACCGGAGTTCCGTTTGCTTCCACT
CGTATGCGTCCGCATGATGGGGCAAATGTCCATGTGCATGCACGCATGCGGCCACGATGTC
CACGTACACCGCGCTGCTTGGTGCGTGTGCCATTTTAGATGAGCGTCGCGATGCATGGGAA
GGCACGTTTCATCGCGTTGTTCCAGCCATCGGAGGAAAACCTCCAAGGCGCTAACAAAGATG
GTCGCCGGCGGTTTTAGTTGATCTGATCCCACGCCCTGATGTGTGCTTTGGCCAGCATGTA
GTCCCCGGTGCTGCAGGAACCGTGATGAGCATGCCTGGCGGTGCTCTCGCTGCCTGCGAT
TCCATTGAAATCCGCATTACGGGTGCGACGCGCCATGGTTCCATGCCCTCATAATTCCATC
GATCCCCTTATGTTGCAGCGATGATTGTGTCGACTCCAAGGAATCGTGGGCGCGGAG
GTTTCTCCAGAGGATTTCCCGGTTATTTCTGTGGGCACCCCTCCAGTCGGGCAACACCAAC
AACACCATTCAGCAAGTGCTCGTTTGGTGTGAACTGCCGTTTCTACAACGACAAAGTC
AAGCACAAGGTCTACCGAGCCATCGAACGTGTTGTCCGTGGTGAATGCCTTGCTTCCGGT
ATTGAGGAAGAACCTGTCAATTGAGTACTTCGCCCACGGTGATCTCACCACCAACACCCCT
GTTGTCTTCGATACTGTGCGCCCTGTCTTCGACGATGTTTTCGGCGAGGATTCTATTGAC
GCTTACCGGTGGACTGCGTCGGAGGATTTCCCTCCATTCTTAAGGCATTCAACAGCCCT
TACCTGTACTGGACGATTGGTGTACGCCGCGCGATCAGTGGACAGAAGCCGTAGAAAGA

GACCGCGTGGCATCGGATGTGCCAGCCAATCACATGGGAGATTTCTCCCTGATTATGCG
CCGACGATGTCCGCTGCCACCCGCGCAGCCGCGCTGCTGACCTACTTGGGAAC
AAC

>RXA02101-downstream
TAATCATCTAGTTTTCTGCGACG

>RXA02105-upstream
GCGGGCGTCGAAAAGCGGCGACCTGCGGATCTGTGACCCGCGCCATAAATGGGTACGATG
GCGGTTGGAAAATTCCGTAACCTCTTTGAGGGAGAAACCC

>RXA02105
ATGGTCGGCAGATTTCCACCTACATCGCATTCAATGGAAACACCACGGAAGCTCTGAAA
CATTGGCAAGAGTTTTTGGTGGTGAACCTAATCTTTAACCTACGGTCAGCTCACCTTG
GAAGGTATGCCGTTTGATCCTCCAGCGGATGCGTTGGCGCACGGCGTCCTCACGTTGGAC
AATGGTGGTTTTGATTTCTGGCAGTGATTCTTTGAGGGAGAAATGCTCGTCAAAGACACC
GCGTACTCCATGTTGTATAACGCGGAGTCAGTGGAAGATGGTCGCGCGCGG

>RXA02111-upstream
GCTTGCGGGAACACCGCACCGCCCACTGTTTCAGATTCCAAAGATAAATTCTGAC
GCTCATTCAGCCACCGTTTAGAAGAAAAGACCCCAATC

>RXA02111
ATGACCACCTCAATCACCCCATCTGTCAACCTTGCATTGAAAAATGCCAATAGCTGCAAC
AGTGAACCTCAAAGACGGACCTGGTTCTCGACCAGCCCGGAATGCCGGATGTCTACGGC
CCCGGCGCGTCACAAAACGATCCGATCCCTGCGCATGCTCCGCGCCAGCAGGTTCTCCCC
GAGGAGTACCAGCGCGCAAGTGATGACGAACTGCATCGTAGGATCCGGAAGCGAAAGAC
ACCCTGGGTGACAAAGTGTTATCCTAGGACACTTCTACCAGCGCGATGAAGTTATCCAA
CACGCAGATTTTGGTGGTGACTCTTTCCAACCTTGCCCGCGCTGCCAAAACCCGACCCGAG
GCGGAAGCGATTGTGTTCTGCGGTGTGCACTTCATGGCTGAAACCGCTGATCTGTTATCC
ACGGATGAACAATCAGTGATCCTCCCCAACCTTGCCGCAGGTTGCTCCATGGCAGACATG
GCTGACCTTGATTCCGTGCAAGACTGCTGGGAGCAACTCACCTCAATTTATGGCGATGAC
ACCGTGATCCCTGTGACCTACATGAATTCCTCTGCAGCGCTCAAAGGTTTCGTGGGTGAG
CACGGCGGAATTGTATGCACCTCCTCAAATGCACGTTCCGTATTGGAGTGGGCGTTTGAA
CGCGGCCAACGAGTCTGTTCTTCCCCGATCAGCACTTGGGTGAAACACCGCGAAAGCC
ATGGGCATTGGGATCGATCAAATGCCCTGTGGAATCCCAACAAACCACTGGGTGGCAAC
ACCGTTTCCGAGCTAGAAAACGCAAAGGTACTGCTCTGGCATGGTTTCTGCTCTGTACAC
AAGCGCTTTACTGTGAGCAGATCAACAAAGCCCGCGCCGAGTACCCGACGTTACGTC
ATCGTGACCCCTGAATCCCCCATGCCAGTTGTTGACGCCGCCGACTCATCCGGATCCACT
GACTTCATTGTGAAAGCCATTCAAGCAGCACCGGCAGGATCTACCTTTGCGATCGGCACC
GAAATCAACTTGGTTTCAGCGCCTGGCAGCCAGTACCCGCGAGCACACCATCTTCTGCCTC
GACCTGTCTATCTGCCATGCTCCACCATGTATCGCATTACCCCTGGTTACCTGGCCTGG
GCACTTGAGGAGTTGGTGGCTGGAAACGTGATTAACCAGATTTCTGTCTCTGAATCCGTG
GCGGCACCGCGCGAGTCGCTTTGGAAAGGATGCTATCTGTTGTTCCAGCAGCTCCTGTT
ACTCCTAGCTCCTCGAAGGATGCG

>RXA02111-downstream
TAATTTATGACTACCCATATTGA

>RXA02118-upstream
GGGCTGGTGCGGGTTGCTTTAATGGAGGTCATGCTCGCAGGCTAACAGAATTGGTGTTT
TAGTGCTGTTACCAGGGACATCGGCTAGAATCTGCTGAAT

>RXA02118
ATGTCTGATCAATTAGCTCCCTGCCCTGAGTGCAGCAGTGAATATACCTACGAAAACGGC
GGCGTTCTGGTCTGCCAATGTGTGCCACGAATGGGTGCAAGGTGAAGTAGCGGAAGAA
ACCGCGACTGTCATCAAAGACTCTGTGGGAAATATCCTCAATGATGGCGATTCCGTATCG
ATTGTGAAGAGCCTCAAAGTCAAGGGTGGCGGTGCCATCAAGATTGGCACCAAAGTCAGC

GGAATTCGTCTTCTTGAAGAGCCAGTTGACGGCCACGACATCGACGCTAAGGTCCCTGGA
TTTGGTCAAATGCGACTCAAGTCCAGTGTGTAAAGAAGGCC

>RXA02118-downstream
TAAACCCTTTTAAGGAGCTTTAG

>RXA02120-upstream
TTGGCCACTTGTGTGAGTAGGCTGGCGGGCAGGTGCTTGAAATACTCTGATTAGTTCCAA
GCAAATTAGCACAACTTCACACTTTATTTAGGAGCATGTT

>RXA02120
ATGTCTGACCTGAAGTCACTTGCCACGAAATTTGCTAGCGATCATGAATCCGGAAAGCTG
CTGGTCCTGCCTACCGTCTGGGATACCTGGAGCGCGGGGCTCGTAGAAGAAGCAGGATTT
AGTGGCCTGACCATTGGTAGCCACCCAGTCGCGGATGCGACAGGAAGCTCCGATGGTGAA
AACATGAATTTTGCAGATTATATGGCGGTGGTCAAGAAGATCACCTCGGCGGTATCCATC
CCCGTAAGCGTTGATGTGGAATCCGGTTATGGTCTCTCGCCTGCGGATTTGATCGCACAG
ATTTTGAAGCTGGCGCAGTGGGCATCAATGTGGAAGATGTTGTGCACAGCGAGGGTAAG
CGTGTTCGTGAGGCGCAGGAGCACGCTGATTACATCGCTGCGGCACGTCAAGCTGCCGAT
GTGGCAGGTGTAGATGTGGTGATCAACGGTCGCACGGATGCCGTCAAACCTTGGTGACAG
GTTTTTGAAGATCCGATGGTGGAGGCCATCAAGCGCATCAAGCTCATGGAACAGGCAGGC
GCGCGTTCCGGTGACCCCGTGGGTCTGAGCACCGCCGAGCAGGTTGAGCGCCTGGTGGAC
GCTGTGTCAAGTCCCGGTCAACATCACCGCGCACCCGGTTGATGGGCACGGCGCAGGCGAT
CTGGCCACCCTCGCAGGCCTTGGCGTGCGCCGCGTGACCTTCGGTCCGCTCTGGCAAAAA
TGGCTGGCTGCCACCTCGGCGCAGCAGCTTAAGGGCTGGGCT

>RXA02120-downstream
TAAATTGCTTGTGCGACGCCTAGT

>RXA02126-upstream
TCCGAGGAAGACATGGCGGCACTTCAAGAAGTGACCGCCCGCGATTATGGCGAGCACAGC
GGTTTTCTGTGTATTCCGGCAAGTAGAAAAGATTTTTATC

>RXA02126
ATGGGACAAAAAGTAACCGCAGGTCTGTGACATCCTAGGAGAGTTTGCACCTAAGTCCGCT
GAACTCAACGATGATGTCTCTTTGGCCAGGTGTGGTCGAGGGAATCAGAGCTTTCCCCA
CGTGACCGAAGCATCGTGATCGTGACAATGTTGATGGCAAGTGGCGTGCTGGATAGTGCT
TTTGAAAGCCACGTTTACGCGAGCCAAAGACAACGGTGTCACTGCTGAAGAAATCGCAGAG
ATCATACCCACGTGGCCTTTTATGCAGGTTGGCCAAAGGCTTGGGCTGCGTTCCGCATC
GCAAAGGACATTTACACCAAG

>RXA02126-downstream
TAATAGCGAGGCAGAAAACACAT

>RXA02192
ATTCCCGACATTGGATTTGGTGTCTTCCAAACCCACCCGATGAAACCCGAAACTCCGTT
AACGCTGCTCTTGAAGCCGGCTATCGCCACATCGACACCGCGGCCGCATACGGCAATGAA
CGTGAAGTCGGTGAAGCAATCGCAGCATCCGGCATTGGCCGCGACGAGATCACCATCGAA
ACCAAAATCTGGGTGACCGACTACGGCTTCGAGGAAACTCTCCACGCATTGACAAGGCC
ACAGGCAAGCTTGGTGTGATACACTGGACATTTTGTCTTGCACACAGGCAGTGCCAAGC
AGCTTTGATCGCACCATCGCCGCTACAAGGCGCTAGAGAAGCTGCTTTTCGACGGCGCG
GTGCGGGCAATCGGAGTCAGTAATTTTATGCCAGAGCACCTGGACAAACTCCTTTTGGAA
ACCTCCATTGTCCCAGCTCTGAACCAAATCGAATGCCACCCCTACTTCCAGCAGCGTGAC
GTGCTTGCCCGCAATGAGCAGCTTGGCATTTTGAATCAGGCG

>RXA02214-upstream
GAACTCAATTCCCTGAGCTGTAATGAAAGGACATTGGTATGGGGTTGCCTCTGACATCGT
TTGAGCTCTCCATCCTTTTCATTTGCTATTCTGGTATCC

>RXA02214

ATGAGTCCACCGTTTTGCTGCTACACAAGCTGACTTCCCTAAGATCGTCGATGTTCTG
GTTGAAGCATTTCGCAACGATCCAGCATTTTTACGATGGATCCCGCAGCCGGACCCCGGT
TCAGCAAAGCTTCGAGCACTTTTCGAACTGCAGATTGAGAAGCAGTATGCAGTGGCGGGA
AATATTGATGTCGCGCGTGATTCTGAGGGAGAAATCGTCGGCGTCGCGTTATGGGATCGG
CCAGATGGTAATCACAGTGCCAAAGATCAAGCAGCGATGCTCCCCCGCTCGTCTCCATT
TTCGGGATCAAGGCTGCACACGTGGCGTGGACGGATTGAGTTCGGCTCGTTTCCACCCC
AAATTCCCCCATTGGTACCTCTACACCGTGGCAACATCTAGCTCTGCCCGTGGAACGGAT
GTTGGCAGTGCGCTTCTTAATCACGGAATCGCTCGCGCGGCTGATGAAGCTATCTATTTG
GAGGCGACGCCGACTCGTGCGGCTCAACTATATAACCGTCTGGGATTCTGTCCTTGGGT
TATATCCCCTCAGATGATGATGGCACTCCTGAACTGGCGATGTGGAACCGCCAGCGATG
CCAACCTGT

>RXA02214-downstream

TAACCCTGAAGGCGATTTAAGGG

>RXA02215

GCCCAAGAACTCCTGGTCAAGCTGTTGCCACATTCTGGAAACGCCCTGCGCATCGGCATC
ACAGGAGTCCCCGGTGTTGGTAAATCAACCTTCATCGAAGCCTTCGGCTTGACCTGATT
GAACAGGGACACAAGGTGGCAGTAGTAGCGATCGACCCGTCCTCGACAAAACCTCGCGGC
TCGATCCTTGGCGATAAAACCCGCATGTCCAAGCTTTCCAACGCAGAAAACGCCTTCATC
AGGCCGTACCTTCTGCCGGAACACTTGGCGGTGTGGCCAAAGCAACGCGTGAAGCCATG
GTGGTTTTTCGAAGCTGCAGGTTACGACATCATCATCGTCGAAACCGTCGGCGTCGGCCAA
AGCGAAGTCGCCGTATCGCACATGGTGGATATCTTACCTTCTGGCGCTGTCCGGCGCT
GGCGACCAACTCCAAGGCATCAAAAAAGGTGTCTTAGAAATGGCAGAGTTGGTGGCCATC
AACAAAGCCGACGGCCCCAACGAAAAACCAGCAAAACGAGCAGCCCGGACCTCGCTTCT
GCACTCCGCATGGTTTCGACGCCCCGATGAACTCTGGCATCCACCAACAATCACCATGTCA
GCTGTGCAAGGCACTGGTGTGGACACCTTTTGGCATCATGTCCAAAACACCACAAAACC
ATGGTGGAGGCGGGGAGTTCGACAGGCGACGACGCGACCAACAAGTGGGATGGACTTGG
TCGATGGTCCATGAACTATCCGCATGCGTCTCGAAAACGATCCCGGTGTTCAAGTAGTG
AGCCAAGACATGGAACGAGCCCTCCGCAAAGGTTCCACCACCCCGACGTTGGCTGCCCAA
AACATCCTGGAGGCGTTCGACAAAGCC

>RXA02215-downstream

TAATAAGGCACCATTTGGATGGT

>RXA02264-upstream

TCCCTGACATCCAGGTGAAGCAACGTTTGATGACGGCACCAAGCTCGTCACCGTGCACA
ATCCCATCCGATAACCCTTGATGTTTTTAGGAGTTTTGTC

>RXA02264

ATGATCCCAGGCGAGTACATCCTGTCCAGCGAATCACTCACCGGAAATGTTGGGCGCGAG
GCCAAAACCATCGAAATCATCAACACCGGTGATAGGCCTGTGCAGATTGGTTTCGATTTT

>RXA02265-upstream

TCAAAGGAAAGCAGTATATTGTCGGTTTTTTAGAGGCTCTCCCAAATATTGCGTTGGGGG
AGCTAAACTAATTTCTGTTACCTGACAGAAAGGGGCAAAA

>RXA02265

TTGCATATCACTCCTCGTGAACAAGAAAACTGATGATCGTGGTGGCGGCTGACCTTGCA
CGTCGCCGTAAAGATCGCGGCCTAAACTTAACCAACAGAGGCGTCGCCCTCATCAG
TATGAACTGATTGAAGGCGCCGTGACGGACGCACAGTCGCAGACCTTATGAGCTGGGGA
AGCACCATTTTACTAGGGATGATGTCTTAGAAGGCATCCCAGAGATGATCCCTGACATC
CAGGTTGAAGCAACGTTTGATGACGGCACCAAGCTCGTCACCGTGCACAATCCCATCCGA

>RXA02265-downstream

TAACCCTTGATGTTTTTAGGAGT

>RXA02274

TACGCAGCAATCGGCGAAGAAGTAGCATTTCGGCGGTGGCAAGGTCATTTCGTGATGGCATG
GGCCAAAATGGCACCTTGGTTTCGCGATGTAGATATTCCCGATACCGTCATCACCACCGTC
ATCGTCCTTGACTATACGGGTGTGTACAAAGCTGACGTTGCGCTTCGAGATGGCAAAATC
TTCCGAATCGGAAAGGCCGGAACCCGAATGTCATGGAAAACGTCGACATCGTCATCGGC
GTTGCCACCGACATCATTGCTGGTGAAGGCAAAATCCTTACCGCAGGTGGCATCGACACG
CACGTGCACTTCTTGGGCACAGACCAGGTCAACACTGCATTAGCATCAGGTATCACCACG
ATGATCGGTGGAGGCACCGGCCCAAGCCAGGCGTCGATGGCTACAACGTGCACGCCAGGT
CAGTGGAATACCTACAACATGCTTAGTGCTTTTGAAGGCATGCCCATGAACTTTGGCATT
TTGGGTAAAGGCCATGGTTCTTCCAAATCTCCGCTGGCTGAGCAGGTTTCGTGCGGGTGCA
ATCGGTCTGAAAATTACAGGAGACTGGGGTGCCACACCATCGTCGATCAACACTGCCCTA
GAAGTAGCCGATGACATGGACATCCAGGTGGCACTCCACTCCGATACCTTGAATGAGGCC
GGTTTTGTGGAAGACACCATTGAAGCCATTGCGGGCCGAGTCATCCATACCTTCCACACC
GAAGGTGCTGGTGGTGACACGCTCCTGACCTAATCCGAGTGGCTGCTCTGCCAAACGTG
TTGCCTGCATCCACCAACCAACGCTCCCATACACCCGAAACACTGTTGAAGAGCACCTG
GACATGGTGATGGTTGCCACACCTCAACCCAGATATTCCAGAAGACGTGGCTTTTGCG
GATTCGCCAATTTCGTGCCGAAACGATTGCAGCCGAAGATGTGCTTACGATATGGGTATC
TTCTCTATCACCTCTTCGGATTCCCGAGGCGATGGGCCGAGTAGGAGAGACCATCACGCGC
ACGTGGCAGGTGCGCGACCATATGAAACGCACCCGTGGATCACTAACGGGAGATGCTCCA
TACAACGACAACAACCGCTTGCGTCGATTTCATCGCAAAATACACCATCAACCCTGCGATT
CGGCACGGTGTGGATTATGTTGTTTCGTTTCAGTGGAGGAAGGCAAGTTTCGCTGACCTCGTG
CTGTGGGATCCAAAGTTCTTTGGTGTGAAACCTGATCTGGTGATCAAGGGTGGGTTGATG
GTCAATTCCCTCATGGGTGATTCCAACGGTTCCATTCCAACCTCCGAGCCCCGCACCCCTG
CGCAATACTTGGGGTGCGTTTGCCAGGCAGTTTCCAGAAGCTCCATTACATTCTATCC
CAGGACGCTATCGATGCAAATGTTCTGATCTGCTGAATCTGAGGAAGCAGATCCGGGGC
GTTTCGAGGTGTAAGGAATCTGACCAAACGAGACATGAACTCAATGCAGAAATGCCTGAT
ATTTCGTGTCGATCCAGAGACCTACCAGGTGTTTGTCAACGGTGAGTTGATCACCAGCAAG
CCAGCAGAGACAGTGCCAATGGCACGTCGCTACTTCTTGTTT

>RXA02274-downstream

TAATCCGCCAACAAGGAAGGAAG

>RXA02275-upstream

GTTTGTCAACGGTGAGTTGATCACCAGCAAGCCAGCAGAGACAGTGCCAATGGCACGTCG
CTACTTCTTGTCTAATCCGCCAACAAGGAAGGAAGATCC

>RXA02275

ATGATTATCACTGCGATCGACACCAACATCTACGATGAACCGGAGTTTGTGTAAGGACGC
GATGTCATCGGTGTGCGCTTTGAAGATTTAGTTTTGGATAAGCGCATTCAACGGGTTGCA
CTCCCCGGAGGAGAAGAAGTGGGGTTGCGGTTAAACACGGGCATCCGATTCTGCGTGAA
GGTGATGTGTTGAAAGCTGATGATAAGACGGTATTTGTGGTGGAGATTATCCCCACGGAT
GTTTTAGTTATCACGCCAAGCGATATTCACCAGATGGGATTTGTGGCGCACTCCCTGGGA
AACAGGCACCTGCCAGCACAGTTTTCGAAGCCAGGTGAATTGACAGAGAAGGCAGCCATG
ATCGTGCAATACGATCACACGGTGGTCAGCTTCTGGATGAGCACGGCATCGAGTATCAG
CGCACCGAACTTGTTCCGCCAATTCTTTTCAGGCATAGCGGGCACACACAT

>RXA02275-downstream

TGATGGATCTTGACGCTGATTTT

>RXA02276-upstream

ATCACACGGTGGTCAGCTTCTTGATGAGCACGGCATCGAGTATCAGCGCACCGAACTTG
TTCCGCCAATTCTTTTCAGGCATAGCGGGCACACACATTG

>RXA02276

ATGGATCTTGACGCTGATTTTCTGCTGTTGCATTTATCGGATTCAGCACTTCCAACGGGA
GCGTTTTCGCGCACTCATTTGGATTGAAACTTATATGGATGCAGAGCGAATCACCATGCA
GAGGAGTTCCAAGACTGGCTGAAAGTCTTGCTTAAGGTGCAATTGACCAGCTCTGATGCT

TTGGCAATGAGGATGTTTTACGCCACCCCGACGGTGTCTGAGCTGAAACGGCTGGATGAG
CGCCTTTTTTGCTGGAACCTCCGGCGAGAGAAATTCGGGAAGCTAATGCTCGAATGGGTACG
CGCATGGCAGAGATCGTGGCTGAAACCTACTCCGTGCCCCCTGATTGTTGAGTATCTCGAA
TTGATTCAACATCGAGAGCTATCAGGGCACCCTGGCTTTGGCTTTGGCTCTTGCCACCCAC
AGCGCGGGGATTGATGTGGATCGAGCAATCCACGCTCACCTCACGGCAACGGTGAGTTTCG
CTGATCCAAAATGCGGTTTCGTGGCATCCCACTGGGGCAAATGGCAGGTCAGCGGGTGATG
TTCGCCATGCGTGAGCATATCGGTGCGGCCGTGAAACGTAGCGCGAACTTGGATGAGATT
GATTTCTGTTTCGGGTGATCCAGGCTTGGATATTTACAAATGGTTCATGAAACCCAACGC
GCACGACTATTTATGAGT

>RXA02276-downstream
TAAGAAGGAGAAAAGAAACATGG

>RXA02277-upstream
ATTGATTTCTGTTTCGGGTGATCCAGGCTTGGATATTTACAAATGGTTCATGAAACCCAA
CGCGCACGACTATTTATGAGTTAAGAAGGAGAAAAGAAAC

>RXA02277
ATGGGTCCAATCAGAAATCGGCGTAGGCGGGCCGGTTCGGCGCCGGAAAAACGCAGCTGGTA
GAGCGGATTACGCGAGCGCTTATCGACGAAGTCAGCATGGCTGCAATCACTAACGATATC
TACACCATTTGAAGACGCCAAGATTCTTGCCGCCAATGGAGTGCTGCCAGAAGAACGCATT
GTTGGCATTGAAACTGGAGGATGCCCACACACTGCGATTTCGTGAAGACACCTCCATGAAT
GATCAGCGCATCAAAGACCTTGTGGAACGCTTCCAGATCTGGAACCTCATCTTTGTGGAA
TCTGGTGGAGATAATCTCTCTGCAACGTTCTCGCCAGAGCTGGTGGATTTTCCATCTAC
ATCATCGATGTTGCCCCAAGGTGAGAAGATCCCGAGGAAAGCTGGCCAAGGCATGATTAAG
TCGGATTTGTTTATCATTAATAAACTGACCTTGCCCCATATGTTGGTGCCAACCTAGAT
GTCATGGTGGAAAGATGCCAAAGCATTCCGCAAGAACAACCATTCTGCCTGACTAATCTG
CGCACCGATGATGGTTTGGATAAGGTCTTGAATGGATCCGCCATGAGGTGATGATGCAG
GACTTGCAAGGAAGCC

>RXA02277-downstream
TAAATGACACAAACCCAACCACT

>RXA02278-upstream
ACCATTCTGCCTGACTAATCTGCGCACCGATGATGGTTTGGATAAGGTCTTGAATGGAT
CCGCCATGAGGTGATGATGCAGGACTTGCAGGAAGCCTAA

>RXA02278
ATGACACAAACCCAACCACTGAGGAAACCTGCGACTGACCATCGATGATCAAGGACCCCAA
GGTCAAAGCCGTGCGGTGGAGCAATTTACCAGGGTGCCTTCGAGTCATCCGGCCACAC
TACTTGGATGATTCCGGACAGGTTTGCTACACCATCATTGCCATTGGTGGCGGATACCTG
GGCGGCGATGTGTATGAGCAGCAATTCACGATCAAAGACAACGCAAAAGCTTTGATCACC
ACGCAATCGGCCACCAAGATTTATCGCACACCGCAAGGACCAGCCACGCAGCACACCGAA
ATCAACGTGCGTGAAAATGCTGTGCTGGAATACTTGGCGGATCAAACCATCGCGTACCGG
GAGGCCACCTATCATCAATTCACCAAGGTGGCGCTGCACCCGAGCGCAACGTTTGTGATG
AGCGAACAATACCCCCAGGCTGGCACCCGACGGCAAACACTTTGCTTACGATGAAATG
CGTCTACACACCGAAATCACGGACTCCACCACAGGGCGACTCGTGCTCTTGGATAATTTA
CTGCTCCGGCCGGACTCCCGAGAGGGAAGTTTGGGTGGACGGAACAGTACACACATTCA
GGGAGATGATTGTGATGGGGGAAGGCGTCGATAAGCAGCTTGTGCTGAGCTGAATGAG
CAACTTGCCGCGCACCTTGATGTGTACGGCGCCGTCAATTTCTTAAGCGCGCCGGGCAG
TTACTGCGCGGATTTATTGCGCGCACGCTGAGCAACCGCACTGAGGAGTTGATTAACCTG
CACGAACACATTGCGTCGCTGTTGCGCGGGCGGTGGCGCGGGCAGGAACCGGTGAATTTG
CGGAAGTAC

>RXA02278-downstream
TAGACGGCGTCGAGAAATCGAAG

>RXA02316-upstream

TGCGCACCTACGGCGCCGAATTCCCGCTGGTCCTGCTTAAAGATGGACAGGCACTGCTTA
TCGACGACCACGGCGTCCACCTAATTTAGGATGGTTCCCC

>RXA02316

ATGAGCACCCCAACTGTTGATGAGATTCTAGAGCGCGCCACGTGGTGTGCTGCGGATG
CGTGTGAAGTTTCGTGGCGTCACCACAGGGAGGCTTTGCTGATTGAAGGCCCTGCTGGT
TGGGGAGAGTTTCGCGCCCTTCCTTGAGTATGACCCGCAAGAATCGGCCAGTTGGCTAAAG
TCCGGCATTGAAGCAGCGTGGGAGGGTTTTCCGGCGCCGTTGCGTGATCGCGTGGAAGTC
AATGCCACCATCCCAGCTGTTCCGGCCGATCAAGTGGCAGAAGTTTTGGACCGTTTCCCA
GGCTGTGCGACCATCAAAGTAAAGGTCGCGGAACCAGGCCAGACCTTGGCTGATGACATC
GCGCGAGTTGCCGCTGCCCGTGAGGCACGCCCCGGCGCGATCATCCGTGTTGATGCCAAT
TGTGGGTGGAGTGTGGAGCAGGCGGTGGAGGCGGCTCAGGCGTTGGCGCCGTTGGATTAT
TTAGAGCAGCCGTGTGCCACCGTGGAGGAACTGGCGGAAGTGCGCATGACGGTGCAGCGG
CGCGGACTTTTTGTGCGCGTTGCAGCGGATGAATCGATCAGAAAATCTGATGATCCTTAT
CGGGTGGCGGATCTGCGTGCTGCGGATGTGGCTGTGGTGAAGGTTGCTCCTTTGGGTGGT
GTGAAAAGGGTACTTGAGGTGGTGCAACATTTGCGGGCGCGCACGATGGACATCACTGTA
GCAAGTGCCTTGGACACGGTTGTGGGGATGAATGCTGGGTTGGCTGCGGTGGCGGCGTTG
CCGAAGTTGGATGATGACGATCTCATTGATGTGCCACCAGCGGCGGCGGGTCTTGCGACT
TCGCAGTTGTTTCTGGAGGATGTCGCGACCCCGCACGCAATCACTGATGGGTTCATGGAA
ACGCGTGTAAATTGCCCCGAAATGGATCGTTTGGAAACGCTTGCTGCCAGCAAAGATAGG
CGTGATTGGTGGTTTGAGCGCGTGCGTGAATCGTATCCGTACCTGGAGACGATC

>RXA02316-downstream

TAGACTGTTGTGCATGTCCAGCA

>RXA02317-upstream

GAATTTTCCGGTGTTAAAATGTGCGGTGAGCTTGGCGTTGGCGGAGGACCAGTGTGGGGA
GACGTCGAAAAGCGAATTCATGGCCCCATCTTGCTTAAA

>RXA02317

ATGGCGCACATGCGCTTACTGCTGACCTCCTTTGGCCATGATCATATTCCGGGATTTTGTA
CGCGGTACCGTGGCGTATATCCCTGATGCGACCAGGCTTTTTGCTGATAGTCCCGAGGCT
GCTCCTTTTATGGAGACGGAGCGAAATATGCTGCGCGAGCACGGCTTGAGCATTCGTGAG
CTGCCGATTTCCACGTCGACTCCGGAGGAAGTGGATCGGGTGCTTGGTGAGGTTGATGGG
GTGTATGTGGCGGGCGGTGAGACTTTTGATCTGATGTGGCTGCTGCGTTCACAGGCAAT
GATGAGGTGTTGATTAAGCATGTTTCGCGCTGGTCTACCGTATATTGGAACGAGCGCCGGC
GCGGTAATTGCAGGTCCTTCGATTGAACCGATCAGCTTTTTGGATAGCCCCGATGTCGCG
CCGAATTTAAGCGACTATTCAGGTCTAGGCCTGTGCGAGCATGTCGTGGTGCCCCATGCT
GGTGGCACGATCCCCGAATTTCCCATCGATGTGTTTGCGGAAACCGTGCGCACCTACGGC
GCCGAATTTCCCGTGGTTCCTGCTTAAAGATGGACAGGCACTGCTTATCGACGACCACGGC
GTCCACCTAATT

>RXA02317-downstream

TAGGATGGTTCCCCATGAGCACC

>RXA02334

GGAGTTCTCCCGGATTGGATGAGCACGGCAACCCAACCCTCAAACACCGGCGTGCTTCGT
GGTGAACACATCCCAGGCGCGATCAACCTGGATTGGTCGGACGCTGTTCTTCCCAACGGA
AACTTCCGCACCCGTGCAGAGTTGGACAAGCTCTACGCCGATCTCAACCCAGCTGACGAT
ACCGTTGTCTACTGCCAGGTTGGCGACCGCGGCCACACCTGGTTTCGTGCTGAAGTAT
CTGCTCGGTTTCAACAACGTCGAAACTATGACGGATCGTGGGCAGAATGGGGCAATATG
GTTTCGCATGCCGATCGAAACTGGCGAAAACACCAAAAATAACGTTTCGGTGTCA

>RXA02334-downstream

TAGAATAGGCGTATCCCCTTTTT

>RXA02351-upstream

TGACACTTTACAGACTGGTTTTCAACTAATGACACCGAAAGAAATACACCTCAACCTTTT

TGCTTTCCGGTGCCGGGCACACGCGGCGGCGTGCGGAGCG

>RXA02351

GTGGAGGGAAGCGTCGAAAAGCTGGGTTTTAATTTCTGGTGGGAGGAACTCGCGCGCACCGCTGAGCGGGGAAGCTGGATGCGGTCTTTTTGGCCGATGGGCAGGCGATTAATCCGGTGGTCTGGAGAATGGGCCGGGCTGGTTTTTTGGAGCCGGTGACCGCGTTGACTGCGATGGCGCGGGCGACGAACAATATTGGGTTGATCAGCACAAATTTCCAGTACGTTTTTGGCAGCCGTTTTCATGCGGCGCGGATGATCGCCAGCTTGGATCATATTTCCGGTGGGCGTGCTGGAATCAATGTGGTGACATCGATGACCGATGCGGAGGCGCGTAACCACGGGATGGATGCGTTGCCGGGTACGATGTTTCGCTATGCGCGCGCTGCGGAATTTATTGAAACCATCACTGCGCTGTGGGATCTTTGGCCTGCGGAAAGTTTTGGTGATGGATCGTGCTGGAAAATTTGCGGACTCCTCGCTCATTAATCTATCGATCATGATGGTGAGTTCTTCCAAGTCGCTGGTCCGCTGAATATCCCCAGTCCTCCGCAGGGTCGACCCGTACTTTTTTCAGGCTGGATCCTCACCGCAAGGACGGGAAATCGCTGCGAAATACGCCGAGGCAATTTACTCTGTGGCGTGCGGATTTGGAGCAAGCGCAAGATTATCGCTCTGATATTCATGCTCGTGCCACTGCCAGGGTCGCGAGCCCATGCCGGTGCTTCCTGGTTTTGGTGACTTTTTGTGGCACGACCGTGGAAGAAGCGCGTGCAAAACGACGAGCTCTTAATGCGTTGCTGCCGGTCAAAGACTCACTAAATCAGTTGAGTTTCTTTGTGGGTCAAGATTGCTCGACGTGGGATTTGGATGCACCTCCCCACCACTGCCACCGCTAGAAGAGTTTTCCGGTCCTAAAGGCAGGTACGAAACGGTCTGCGG

>RXA02410-upstream

TATGAGACTGACCATCCTTGGAAGCTCTGGTAGCGTGCCCGCTCCAGGTAACCCCGCATCCGATATCTGTAACTTCTCCGGACGCCCTGCCGTGATT

>RXA02410

ATGGACATGGGCCCAGGTGTCCTTGACAGCAGTTCAAGAAATTCAGATCCTGCTGATGCGCATGTTATTTTCTCCCATTTGCACACCGATCACTGCGCTGATTTTGCGTCCTTGATGGTGTTGGCGCAGGTTCCACCCAACGCTGGCCGCCAAGAGCCGCAATCTTTTGTGTTGGACCTGAAGATACCCCAACAGGCTTGCTCGTTTGAGCTCCGATGAGCCTGATGGCGTTGACGATATGTCAGATACTTTTGCTTTCGACGCCTGGGAAGAGCGCAAGCCAGAGCTCATTGATAATTTACGGTCACGCCGTTCCGCGTTGTGCACCCCATTTGAGACCTACGCGCTTCGCGTAGAGGAGCACCGCACCGCGCCTCAATTACGTATTTCCGGTGACAGCGCGTACACCGAAGCGCTTATCAGCCCGCCCGCAACGTTGACATTTTCTTGTGCGAGGCAACTTGGGGCACCTCTTGCGATGACAAAGCACCAGGAATGCATATGTGTGGCCAAGACGCCGAAGAATTGCGGCAGCAGCTGGCGTAAAGAACTGATTATCACTCATGTTCCACCATGGATTGATGCAGAGGCCACAGTGGCAGCAGCTGCGGAACACTTTGATGGTCCTATCGAATTGGCACGATCAGGAATGGTTATCAGTTT

>RXA02410-downstream

TAGTCCGTTTGTACTAATAAGGT

>RXA02411-upstream

GCAGCGAATCGTCTGGTTTTCTTGATCGGGTGAATCAGCCATTGCCATATTGTGACACATCTTGGACGGATAAAAAGGGAAGCAACGCGAGGTGGCTTATG

>RXA02411

ATGGCAACCGTGACTGATTTCAAGTGGATCTATGATTGAACGCCCCGTGCCAGGTGCTGATGCGCCGATTGGAATTTTTGATTCTGGAGTTGGCGGATTAACCGTAGCTCGCACAAATCATCGATCAATTGCCACATGAATCAGTTATTTATATCGGTGATACTGCCAATGGCCCTTATGGTCCGTTGCCTATCGCTAAGGTCCGTGAGCACGCCATCCGCAATTGCCGATGAGTTGGTGGAACGCGGATGCAAGATGATTGTCAATTGCCTGCAACACTGCGTCCGCTGCGTTTCTCCGAGATGCCCGTGAACGATACAGTGTGCCAGTCGTGGAAGTTATTCTTCCCGCAGTAAGGCGTGCGGTGGCATCCACCCGCAATGGCAAAGTGGGCGTGATCGGCACAGTGGGAACCATTAACCTCCGGTGCCTACCAGGATCTTTTCTCTGCAAGCCCCCTCCATTGTGGTCAACGAGTGGCATGCCACGGTTTGTGGATTTTCGTGGAACGCGGAATTACCAGCGGCAGGCAGATCCTCAACATTGCGCAGGATTATTTAGAGCCTTTGCAAGCAGAAGGGGTGGACACCCCTCGTGCTTGGATGCACCACTATCCACTGCTTTCCGGTGTCAATTCAGTTGGCAATGGGGGACCACGTAAGTTTGTCTCTAGCGCGGAAGAACTGCGAAAGACGTGCTGAGAATTTTGGCCAGCAAGATCTTTAGCCGATCCGGACATGCATCCTGAGCCAAGTTATAGCTTTGAATCAACAGGCGATCCG

GAAATCTTTGCGCAATTAAGCCGCCGATTCCCTTGGACCAATTGTTTCCCAAGTGAGACAA
AACGAGGGA

>RXA02411-downstream
TAACCCAGGTGTGTGTTCTACC

>RXA02448-upstream
AGCATTACCGGCCAGATCTTCAAGAAGGCTTAAACCCCTCCGATCTCTTTGGCTAGCA
CCTAACAAACCACACACCTTTTAGAAAGTGATTCTCGCT

>RXA02448
GTGAACAACCTCACTCGCATTCAACCACGACACCCTCCACAGAAAGTCATGTTTGGATAT
GGCAAGTCCAGTGCATTCTTAAAGCAGGAAGTTGAACGCCGCGGCTCAGCCAAGGTCATG
GCATTGCGGGTGAACGAGAAATGTCGATCGCCATAAGGTGGCCTCAGAAATTGAGGTG
GCGATCTGGCAGCAGAAAGTTGTCATGCACGTGCCCATCGAAGTAGCCGAACGTGCGCGT
GCAGTGGCAACCGACAATGAGATTGATCTGCTGGTGTGTGTTGGCGGCGGATCCACCATA
GGTTTGGCCAAAGCAATTGCCATGACCACTGCCCTGCCCATCGTCGCGATCCCCACCACC
TACGCAGGATCGGAAGCAACCAACGTGTGGGGTCTGACGGAAGCAGCGCGCAAAACAACC
GGTGTGATCTGAAGGTGCTCCCCGAAACAGTCATTTACGATTCCGAACCTACCATGTGCG
CTTCCAGTGGAGATGTCCGTGGCATCCGGACTCAACGGCCTGGCGCACTGCATTGATTCT
TTGTGGGGACCCAACGCCGATCCCATCAACGCAGTGCTTGCAGCCGAAGGAATCCGCGCA
CTCAACCAGGGACTGCCGAAAATTGTTGCGAACCCGCACAGCATCGAAGGACGCGACGAA
GCCCTCTACGGCGCCTACCTCGCAGCAGTATCCTTCGCCTCCGCAGGCTCCGGACTACAC
CACAAAATCTGCCACACCTTGGGAGGCACCTTCAACCTCCCCACGCCCAAACCCACGCA
ACCGTGCTGCCGTATGTTTTGGCATTCAACGCAGGCGACGCACCAGAAGCTGAACGCCGC
GCAGCCGCAGCCTTTGGAAGTACACCGCACTAGAAGGCCTGCAACGCCTCCGCTTGTC
GTCAACGCACCGAAACGACTTTCCGACTACGGCTTCGAGGCTTCAGGAATTGCTGAGGCA
GTGGACGTACGTTGGAGAAAGTTCCCGCCAACAATCCTCGCCAGTGACCCGGGAAAAAC
CTCAGCAGATTGCTCGAAGCAGCACTCAACGGTGAGGATCCGGCAGTTCTTAGCGCAGTA
CTCAGTAAC

>RXA02448-downstream
TAACCCGGCGATTTTTCAAGGAG

>RXA02449-upstream
ACCTCAGCAGATTGCTCGAAGCAGCACTCAACGGTGAGGATCCGGCAGTTCTTAGCGCAG
TACTCAGTAATAACCCGGCGATTTTTCAAGGAGAAAATC

>RXA02449
ATGACAACCACCACCGCAGACCACAACATCAGCGCGCAGCAAAAGGCTGTTGAAGAAAAT
CTGGTGAACCGTGTCTCCAATCTTTTGATGCGTGTGAAAACCCGCGCCTCAAGCAGCTG
ATGGAATCGCTGGTTGTGCATCTGCACGATTTATCCGGGATGTGCGCCTCACCGAGGAT
GAGTGAATTACGCCATTGATTTCTCTCACAGCGGTTGGCCACATTACTGATGACAAGCGC
CAAGAGTTTGTGTTGCTTTCCGATACCTTGGGCGCCTCGATGCAGACCATCGCGGTGAAC
AACGAAGCGTATGAAAACCTCAACGGAAGCTACAGTCTTTGGTCCATTCTTCTCGATGAC
GCTCCTGAGGTTGAGCTGGGTGGAGATATCGCCGGCGGCGCCAGGGGCAGGCAGCGTGG
ATTGAAGGAACCGTCACCGACACTGAAGGCAATCCCGTTCCGAATGCTCGTATCGAGGTG
TGGGAGTGCATGAAGATGGACTCTACGATGTCCAATATGCCGATGAGCGCATGGCGGGT
CGCGCGTATATGCACACCGACGCCAATGGCGATTACCGCTTCTGGGGTCTGACTCCGGTT
CCTTATCCAATCCCCACGATGGCCCCGTGGGCAACATGCTCAAGGCGGTTGGTCTGTTCCG
CCGGTGCCTGCGCCACCTTCACTTCATGGTGACCGCTCCTGAATTGCGCACCTTGGTC
ACTCACATTTTCGTTGAGGGTGATCCGCAGCTAGAAATCGGCGATTCCGTCTTCGGGGTC
AAGGACTCGTTGATCAAGAAGTTTGAGGAGCAGGCGCCAGGCACTCTACCCAGATGGT
CGGGATCTCGGCGATCAGACGTGGGCGCGCACGCGCTTCGACATCGTGCTCGCGCCGGGC
GCG

>RXA02449-downstream
TAGGATTTGCTTTTTCGACGCAA

>RXA02470-upstream

CTAATTCGAAGCCGAGCTGAAAAAGTCTGGAAGTTTTGCCCAATAAGGGCGTTAAAGTGG
GTGAAAGCGAATTTAGAAATAAAGAATTAAGGGGAGAGAC

>RXA02470

ATGTTTCGAGAGGTTTACCGATCGTGCACGCCGCGTGATTGTGCTCGCGCAGGAAGAGGCG
CGCATGCTCAACCACAATTACATCGGCACGGAGCACATTCTCCTCGGCCTCATTACAGAG
GGCGAGGGCGTTGCAGCCAAGGCTTTGGAATCCATGGGAATTTCCCTGGACGCCGTCCGC
CAGGAAGTCGAAGAGATTATCGGCCAGGGCTCCAGCCCACCACCGGCCACATTCTTTTT
ACTCCACGTGCCAAGAAGGTCTGAGCTCAGCCTCCGCGAAGGCCTACAAATGGGACAC
AAGTACATCGGTACTGAGTTCTGCTTCTCGGTTTGATCCGTGAGGGCGAGGGCGTTGCT
GCCCAGGTCTGGTCAAGCTTGGTGCTGATCTGCCACGCGTGCGTCAGCAAGTTATTCAG
CTTCTCTCCGGCTACGAAGGTGGCCAGGGCGGATCCCCAGAGGGCGGCCAGGGCGCCCT
ACTGGCGGTGACGCTGTTGGTGACGAGCTGCTCCTGGCGGTGCTCCATCTTCGGGCAGC
CCAGGCGAGCGTTCTACCTCTTTGGTGCTTGACAGTTCCGGCCGCAACCTCACCCAGGCT
GCAAAGGACGGCAAGCTGGATCCAGTTGTTGGTGCGGATAAGGAAATCGAGCGCATCATG
CAGGTGCTCTCCCGTCTGACCAAGAACAACCCAGTTCTTATTGGTGAGCCAGGTGTTGGT
AAGACCGCAGTTGTTGAAGGTCTTGCACTAGACATTGTTAACGGCAAGGTTCCAGAGACC
CTCAAGGACAAGCAGGTTTACTCCCTTGACTTAGGTTCCCTGGTTGCAGGTTCCCGTTAC
CGCGGTGACTTCAAGAGCGACTGAAGAAGGTCTCAAGGAGATTAACCAGCGCGGCGAC
ATCATCTGTTTATCGATGAGATCCACACCCCTCGTGGGTGCAGGTGCAGCACGAAGGCGC
AATCGACGCTGCCTCCCTGCT

>RXA02470-downstream

TAAGCCAAAGCTTGCCCGCGGTG

>RXA02471-upstream

GGTGACTTCGAAGAGCGACTGAAGAAGGTCTCAAGGAGATTAACCAGCGCGGCGACATC
ATCCTGTTTATCGATGAGATCCACACCCCTCGTGGGTGCAG

>RXA02471

GTGCAGCACGAAGGCGCAATCGACGCTGCCTCCCTGCTTAAGCCAAAGCTTGCCCGCGGT
GAACTGCAGACCATTGGTGCAACCACCCCTGGATGAGTACCGTAAGCACATTGAAAAGGAC
GCAGCTCTTGAGCGTCGTTTCCAGCCAGTGCAGGTTCCAGAGCCTTCGGTTGATCTCACC
GTTGAGATCTTGAAGGGTCTGCGCGACCGCTACGAAGCTCACCACCGCGTATCCATCACC
GATGGTGCTCTTACTGCAGCAGCTCAGCTTGCTGATCGCTACATCAACGACCGCTTCTTG
CCAGATAAGGCCGTTGACCTCATCGATGAGGCTGGCGCCCGCATGCGCATCAAGCGCATG
ACCGCACCTTCTCCCTCCGCGAGGTTGATGAGCGTATCGCTGATGTTCCGCGTGAGAAG
GAAGCAGCGATCGATGCTCAGGACTTTGAGAAGGCAGCAGGTCTTCGCGATAAGGAGCGC
AAGCTCGCGAAGAGCGTTTCAAGAGGAAAAGCAGTGGCGCTCCGGCGACCTCGAGGAC
ATCGCTGAGGTTGGCGAAGAGCAGATCGCAGAAGTACTGGCCAACTGGACTGGTATTCTCT
GTCTTCAAGCTCACCAGAGCTGAATCTTCACGCCTGCTCAACATGGAAGAAGAGTTGCAC
AAGCGCATCATCGGACAGGATGAAGCTGTCAAGGCTGTCTCCCGTGCGATCCGTCTGATCC
CGTGAGGTTCTGAAGGATCCTAAGCGTCTTCCGGCTCCTTCATCTTCGCTGGTCCATCC
GGCGTTGGTAAGACCGAGCTGTCCAAGGCTCTCGCAGGATTCTCTTCGGTGACGATGAT
TCCCTCATCCAAATCGACATGGGTGAGTTCCACGACCGCTTCACCGCGTCCCGACTTTTC
GGTGCCCTCCGGGATACGTTGGCTACGAAGAAGGTGGCCAGCTGACCGAGAAGGTTCCG
CGTAAGCCATTCTCCGTTGTGCTTTTCGACGAAATCGAGAAGGCCCAAGGAGATCTAC
AACACCTTGCTGCAGGTGTTGGAAGATGGTGCCTTACCGATGGTCAGGGACGCATCGTG
GACTTCAAGAACACCGTCTGATCTTACCTCCAACCTGGGCACCGCTGACATCTCCAAG
GCTGTTGGCCTGGGCTTCTCCGGATCCTCCGAGACTGACAGCGATGCTCAGTACGACCGC
ATGAAGAACAAGGTCCACGACGAGCTGAAGAAGCACTTCGCCCCTGAGTTCCTGAACCGT
ATTGATGAGATCGTGGTCTTCCACCAGCTACCAAGGATCAGATCGTTGATGAGTTCGAC
CTTCTTATCGGTGCGGTTTCCAACGCACCTGGCTGAGAAGGACATGAGCATCGAACTGACT
GAGAAGGCCAAGGACCTCCTGGCTAACCAGAGGCTTCGATCCAGTTCTGGGTGCACGACCA
TTGCGTTCGACCATCCAGCGCGAAATTGAAGACCAGATGTCCGAGAAGATCCTCTTCGGT
GAAATCGGCGCAGGCGAGATCGTCACCGTTGACGTCGAAGGCTGGGACGGCGAGTCCAAG
GACACCGACCGTGCGAAGTTCACCTTCACACCACGTCCAAGCCAATGCCAGAAGGTAAG
TTCTCTGAGATCTCTGTGAGGCTGCGGAAGCAATTCAAGATGTAGATTCTGCAGCTGAC

GGCGATGTCCAGAAACCGATTCACTTTCCGACATTGACCTTGAAACCTTGAAAAGTTT
GAGGAAGATGTAGAAAACGGCACCGACATTGATCAGGTGTCCGGTGACTACTACGGCACC
GATGATCAGGGAGGCACTGCTCCAAGCAAGGAG

>RXA02471-downstream
TAGCAACCTTTTGAAAAGGGCC

>RXA02477-upstream
CGAGCAGGGCTGTTTGAAAAGCTGTAAATGACATGACCTAAATGATTGTACTGACTGGCA
CTTTAGGTCATATGTACACCGAGTGGAATAATAAAGCTT

>RXA02477
ATGCCTTTGCGTAATGTTGATAGAACTCCGCCCCGAGTATGGGAAGCATTGCTTGCCGGA
AACGAAAGATTTCATCAGTTTCAACGAAGATCGACCAAACCAGGACGCCCCGCGCAGAAGA
GAACTTCGCAATGGACAAACGCCTGCAGCTGTTGTTATTTCTGTTTCAGATTCTCGAGTG
CCAGTTGAGATTATTTTTGACGTCCGTCTCGGTGACCTCTTTGTTGTCCGTACTGCCGGA
GAAATCCTCGACCAAGCAGTGCTTGCGTCCATCGAATACGCCACTGAATCCATCGGCGTT
CCATTGGTTATCGTCATGGGCCACGAATCCTGTGGTGCAGTTGCAGCAACTGCAGCAGCA
CTTGAAGGCGGTGCACTTCCCGGAGGCTACCAACGAGTTTTGGTTGAAAAGGTTGCACCA
TCCATTCTAGAAGCCAAGGCAGAGGGCTGAGCTCCATCAAGGAATTCGAGGAACACCAC
GTTGTGGCAACGGTAAACCAACTGTTGTCCCGTTCTCCAGAGATTTCATCAGAAGGTCGAA
ACCGGTGAGTTGGGAATCATTGGTTTGCGCTACCGACTCTCTGACGGTCGTACTGAACCT
GTAATTAGCAAGAACGTGGGT

>RXA02477-downstream
TAGTTTTCGGTCTGAGATTGCCT

>RXA02497-upstream
TCGATGCCGCCGCTGGCGAAGACTCGGGGAAACCTAAAAATACCGAAGAAGAATTTGACC
GATTCACACTTTGCCACCCTAGACCGTCTAACCTTTAGGT

>RXA02497
GTGAGATTAGGTGTATTAGATGTGGGCAGCAATACTGTCCACCTAGTTGCAGTAGACGCG
CGTCCCGGTGGACACCCACCCGATGAGCAATTGGCGTACCCACTGCGCCTTGTTGAG
CTTCTTGATGACTCCGGGGCGATCTCCGAAAAGGGCATCAACAACTCACCTCAGCAGTC
GGGGAAGCAGCAGACCTAGCGAAAACGCTCGGCTGCGCTGAACTGATGCCATTTGCTACA
TCGGCAGTCCGCTCCGCCACCAACAGCGAGGCAGTGCTCGACCACGTGGAGAAGGAAACC
GGCGTCCGCCTGTCCATCCTTTCCGGTGAAGACGAAGCACGCCAACTTTCTCGCAGTT
CGAGTTGGTATGGATGGTCCGCAGGGCGCATAACTAACCTCGACATCGGTGGCGGCTCC
CTGGAACTATCCTCCGGAACCGACGAATCCCCAGACCTCGCGTTCTCACTGGATCTGGGT
GCGGGCCGCTTGACCCACAACCTGGTTTCGACACCGATCCACCGGCACGTAAGAAAAATCAAC
CTCCTGCGCGATTATATCGATGCGGAACCTGCAGAACCCGCCCGCCAGATGCGCACCCCTA
GGGCCCCGCGCCTGGCAGTGGAACATCCAAAACCTTTCCGCACCCTGGCACGACTGACT
GGTGCTGCGCCCTCATCCGCAGGACCACACGTACCCGAACCCTCACCGCGCCGGGTCTG
CGCCAGCTGATCGCATTTATCTCACGAATGACTGCGGCGGACCGCGCTGAGCTGGAAGGT
ATCAGCTCGGATCGGTACATCAGATCGTGGCAGGTGCGCTAGTTGCGGAAGCTGCGATG
CGTGCGTTGGATATTGACAAGGTAGAAATTTGTCCGTGGGCACTTCGTGAAGGTGTGATC
CTCACCAGGATCGACAAAGGACTCGAG

>RXA02497-downstream
TAACATTTACCCGGAAGGAGTT

>RXA02513-upstream
GTCATGTAGGATAAGAAAATCCCGCACACAACCCGTCCTGGTGGGGTAAGTGAGGGAGGC
ATGTCTATGCCCCAATTAGACATCTGACATC

>RXA02513
ATGCTTCCAATCTGGATGGGTCTTCCATTCAAGAAAGCAGGGGCTTTGTCTCGGCGTAAA

GCAGTATTCTCAGCGCTTGGTGCAGACGCACTCATGGGCGCAGCACTACCCACCATCCCA
 ACGGCCCCAAGCTCAAACACCCACGGGCTACGGATTTCGATGCAACAGCAAGCATCAGCGAA
 GAACCAGAGTTTTCAACACAACAACCTCGCTGACGGCGGAACTCTCGGATTTGATTGCTAC
 CGCATCCCATCGCTTGGCGTGCACCCAAACGGCAACGTCTCGCATCGTGGGATGGTTCGC
 CCAAACAACCTGTTTCAGATGCTCCACAACCCAACCTCCATCGTGGGCAAGGTATCGACCGAC
 AACGGAGCAACCTGGGGCGAACAGCAGCAGCATTTCCGCGAGGTATCACCGCCGAACCCAAA
 ACTGGCTATTCCGATCCCAGCATCGTTGTGGACTGGGAGAGGGGCGATGTCTTTAACTTC
 CACGTGAAGTCATTTCGATGCAGGATACTTCACCTCCCAACCAGGCACGGACCCGGATGAT
 CGCAACGTTGCCCATGTTGCCTACGCCAAATCATCAGATAACGGCTCAACCTGGGTTGCA
 GACACCGTCATTACTGATCAAGTGGTTGCTCATGACACCTGGGACAGCCGATTTGCCACA
 TCCGGAAACGGCATCCAACCTGCAATACGGCGCGTACAAGGGACGATTGGTCCAGCCATCG
 GTAACCTCGCATG

>RXA02526-upstream

AGGAAATGACACTCAACTAGAAATCTTTTCTTCAGATGCCACAATCGAAAGCTGGTTGGC
 TGCGGAGAGAGCACTCTCAACTGCTCAAGCCCGCCATGGT

>RXA02526

GTGATCACTGAAGACGATGCTGCACAGATCAACCAGGCGGCAGTCCTTTCCAACATTGAC
 CGCGAGAAGCTGTGGGAAGATGCCAAAAATGTCGGCTACCCCATCCTTGGCTTGGTAAGA
 CAAATCGCCAGTCACCTTCCAGAAGGGCCCCAACGGGCGAGTCCACTACGGCGCCACGACC
 CAAGTCATCATGGACACTGGACTGGTGTGCAAATGACTGCCTCTTTGAACGCCCTTGAT
 AAACAGATCGTGCCTCTGGGGAATGCACTGGCAGCACGGGCTGAAGAGCACAAGACACC
 GTGATGCCGGGACGCACCCATGCTCAGCAGGCAATTCCCACTACATTTGGAGCAACCCCTC
 GCTACCTTTTTTGGATCAAATCCGCAGGCAGAGGGAACGACTTGAGGAAGCACTCGAGCGC
 GTGCGAGTCATTTTCGCTGTTTGGTGTGTTGGTGGAAACAACGCAGCACAAGGCGAACAAGCG
 GCAACGGTTTCGTGCAGAGATGGCCCGCCTGTTGGATCTGAAGGACCCGGTGGTGTGATGG
 CATGTGGAACCGCATGTGCTTGGGGACTTCGGATGGGTGTGCTCAACGCTGTGTGGATCG
 ATGGCAAATTTGGCCGAAACATCGTGGATCTTTCCCGAACTGAAATCGGAGAAGTTTTT
 GAGCCTTACAACCTCCCATCGGGGTGCATCTTCCATGATGCCTCAGAAAGTCAACCCGATT
 TCTTCCGAGCTCATGATTGGTATTTTCAGTGGTGGCGGGTGCCTTGACCTCGACTTTGCCA
 CGGCTTCAGGAATCGGGACATGAACGAGCAGCAGGAGAGTGGCAGGGAGAATGGCTTGCT
 ATTCCAACGTTGGCCAATCTAGCTGGCGCTGCACTCGATGAAGCCATTGTGGTGGCTGAA
 GGAATGCGAGTGGATACAGATCGTATGTCTCGAATTTGGCTTTTGTGGTGGATTGATC
 ATGGCGGAAGCTCAGATGATTCAACTAGCTCCAGCTCTGGGGCGTGAGAAAGCTCATGAC
 TTGGTTTATGAAGCATCCACAAAGACTCGTGAAGAGCACACCACGCTGGCAGAAGAACTG
 CCGATAATTGCAGTTCAACATGGGGTCAAGACCTGTTGCCTAAGAATTTTGGCGAGCCT
 GCAGACTACGTGGCGAAGCACAATCCATGGTGAATGCAGCTGTGCGCCGCTGGAATGCC
 CAACTT

>RXA02526-downstream

TAACAACCCAAAACCTTTAACAAC

>RXA02530-upstream

CGATCTCCAGGGCTTCCC

>RXA02530

ATGAATCGCCCCGATCCGAAAACTCCAGCTGGCACATTGGTTGCTGGTTATTACGGCGCT
 TACGAGAACGAGTTCTCCTTCGCAGTTGTGCGCCAGTCAAAGTCTCACGAGTTGAGCCC
 ACTTCCGAGGATCCTTCGAGCCCATTGCGCGTGAGCAGCGACGATGGTCGAGAGTGGATT
 ACCCGCATGGTTCTTAATGCAACAGGTACGTGGACAAACCCTTATGTTCCGTACATTCTCT
 GGCATCGATAAATTCCAGGGCAAGCAGCTCCACACCGTTAATTACCGCAAGGCCGAGGAT
 TTCAAAGGTAAGAAAGTCTGCTCGTGGCGGGTGGTTTGGAGTGTGTGCAATTTCTGCTG
 GAGTTGGAAGGCTTGGCGGAAACCACCTGGGCGACGCGTCGTCCGCGAACTTACGCAGCG
 CGAGTTTCGACGCCGGCTGGGGCATTGCGGT

>RXA02530-downstream

TGAGCGCGCGTCCGCGAACGCA

>RXA02531-upstream

CACTTCGCTCCCCAAGGTACATCCCCGATGCCACTTCTTGAGCCATCATCGGTGCCACC
AAACACATTGAAGTGGGCACTGGAGTAGTGGATATGCGTT

>RXA02531

ATGAAAATCCCTTTGTATATGGCCGAGGAAGCAGCTGCTCTCAATCTGCTTGCCGACGGC
CGACTAGCCCTCGGAGTTTCCAGGGGATCACCCGAACCAGCCGAGAAGGGTTGGGAAGCT
TTCGGCTACGACGGCGGTGATGATCCTAAAGCTGCAGGCATGGCACGGGAGAAATTCCTT
CGCTTCCTCGATGCCATCGATGGTCGCCCCATGTCCATCGCTTCCGAGAATCAATACCCA
CGCCTCTACCATCCGGGCACTCCCCTGCCGATCTTCCCGCATGATCTTGACTTGGGTAAA
TCCATTTGGTGGGGCGCCGGTTCCACAAACACCGCCGAACAAGCAGCACGCGATGGCGTT
AACTTGTAGAGCTCCACCCTCGTCGCCGAAGCCACCGGCCAATCCTTCGGGGATCTGCAA
GCCGATCAAATCGCGTTCTACCGCCAAGCTTGGAAGAAGCCGGACACGATTGGACCCCA
CGTGTGTCTGTCTCCAGGTCCATCTTTCGATCGTCACCGACCGCGACCGTGAGCTTTTC
GGACTTCAGGGACAAGGCGGTGACCAAGTAGGAATCCTGGATGATACCCGATCCACGTTT
GGTCGCAGCTACGCCGAAGTCCCGATGAATCATCGACCAGCTCCAAGGAAGACAAAGC
TGTGATGGAAGCCGACACCTTGATGCTCACCGCCCCCAACCAAATGGGTGT

>RXA02531-downstream

TGAGATCAACGCGTCGATCCTGA

>RXA02535-upstream

AGGATTGGGTGAGGAGGGAGGCGTCGAAAAGCAAGAAACGCCTGACACGCGTAGCCGTGG
CTGCGCACCTTTTACCTTGATTAGGTGCACAATAGGGAGT

>RXA02535

GTGACACCTCGCCCTGTTTCTTCTGTTGCGCGACTCGTTGAGGATAACGCGCAAGATTTT
CTTCGCGCCGTTTCAGGCGAACTTTTAAACGCTCGCGCCACAGGCTCGTGGGCATTTTCCC
ACTGCGGATGATGCGACTCATATCAGCATCGCCGAAATGGTGAGTGCGCTGTTGGAAGGC
ACTGGTGAGGAAGGGAAGTAGACGACAAAACACTGGAGTTCTTTAAAGAAGCGGCGTTA
GATGCGCGTCGATTTGGCCTGACCCAGAAATGCACAGCGCTTTGGGTGAGGCCGTGCGC
AGCGAACTATTGTCAATTATGCGAGGATCTTCCCTTTGAAAATGTGCTGTTTGCCGAGCGT
GCGATTGCTGCAACCACGGCTGTTTCCGTCGAGGCGGTTTCGTGAAGCTGATGAGGCACAC
ATTCTGCTCATATCAGGCAGAAATTGTAGAAGTTGAAAAGCGCAGCCGTAGGTTTACC
GTCGTGCGCATGCAAGCTGAAACGCAACTGCCCTACCTACCGGGACAATATCTTGCAGCA
ACTGCGGATTTTCTGCCCAACACATGGCGCTACCTGTGCCCTTCGATCCCCACTAACGAA
TGGGGGCGAGGTGGAGTTTACATCCAATCAGACGCAGATGATATCGCTGGACTTTTAGCC
ACCACACGCCTTGGCGATAAATGGCGACTTGGCCCCGTCGTGGAGATTTTCGGACAAAGC
AAAATTAGTTCCGGCAATGATTTGTTATTTATTGACATGGAACGGGCCTAGCTCCTCTT
CGCGCTTACATGTTTGAGCTGATGAACCAAGCAGCACCTCCACGTTTGCATTTTTCGTC
GGTGCCGACTACCCCGGTGAGCTGTATGAATCACCAGCATGTGGAATTTTGCTGCAGCC
AGCCCATGGCTTTCTGTCTGTCACCGGTGTCAACGCATGACAAGGATGCGTGGTGGGTTCAA
GCCACCGAAGCATCGCAGCCACCGAGGGGTTTGATTTGCATCAAACGGGTTTCGATGGCG
AAGATCGTCACCGAAGCAGGTGCTTGGGCCGACCGCGACGTGTTAATTGCTGGCCCTGAA
TCGTGGGCTCGGGATGTTTCGGCGCGCATGATTAGGCGTGGAACCTCCGGCCAGCAGATT
GAGATTTTAGGGTTC

>RXA02535-downstream

TAGGTTGCCTCACCGGGCTGACC

>RXA02548

CCACCGATCTACTTCTCCACGACCGCGAAGTTTTCGAGCGCGACGGCATGTGGCTGACC
GCAGGCGAGTGGGGTGGACCAAGAAGGGCGAGGAGATCGTCACCAAGACTGTCCGCTAC
CGCACCGTCGGCGATATGTCTGCACCGGTGCTGTGCTCTCCGAAGCCCGCACCATTTGAC
GATGTGATCGAAGAGATCGCCACCTCCACCCTTACCGAACGTGGCGCAACCCGCGCCGAT
GACCGCCTCAGCGAATCCGCAATGGAAGACCGCAAGAAGGAAGGCTACTTC

>RXA02548-downstream

TGATGACTGCTCCAACCTTGAAT

>RXA02558-upstream

CCCTCCCGAAATTAGAAATCCCCTTTTAAATGTGATATCACTTTCTGTAAACTGATATCA
CATTCTTTTTCAGCACCCAGACTTAAAGGAGCACCACC

>RXA02558

ATGAGCACCATAGAAGAGCGCACTCCTGGAGCTGTGCGCCACAGAACCAAGTGGGACACGAA
GGCGCACGCGTCAGCATTAATGAGAAGAACGTGTGGTCTTTGGGCGCAGGTCCAGCAGCT
TTCGCACTGCTCGCAATGATTGTGCTCATGATTGCCAGTGGAGTTTTCTTCGCTCAATCC
ATCAACACTTTAGAAAACGATGGCGGTGGAACACTTGCAGTTACGGGACTGATTGCCAGC
ATCGTCGTTTTCTACTGTTGCATTGGTGGTCACCATAACTTCGGTGAAGGTGGTCAGCCCT
GGACATACTCTGACTGTGCAGTTCTTTGGACGATACATCGGAACCCCTGCGTCGAACCTGGG
TTGTCTTTTCGTTCCCCCACTGTCTGTGACGAAGAAAGTGTCCGTGAGGGTCCGAAACTTT
GAAACCAACGAAGCCAAAGTTAATGACTACAACGGCAACCCCATCAACATTGCAGCGATC
ATCGTGTGGCAGGTAGCCGATACTGCACAGGCTAGCTTCTCTGTGGAGGATTTTGAAGAG
TTCTTGCACACGAGCAGGCCGAGTCCGCACTGCGTCACGTGGCAACCCAGCACCCTATGAT
TCCCCAGTTGATGGTCGTGTTTTCCTTGCCTGGCGCTACCGATGAGGTGAGTGAAGAACTC
GCAGATGAGGTGGCACAACGAGCAGCTGTTGCAGGTCTTGAAATCGTCCGAAGCCCGCATC
TCTTCTTGAGCTACGCACCCGAAATTGCCAGGCGATGCTGCAGCGCCAGCAGGCTTCC
GCGATTGTTGATGCCCCGGAAGATCGTCGAGGGCGCTGTCAACATGGTGGAACCCGCA
CTTGACCAGCTTGAGCAACGTGAAATTGTGGATTGTGATCCAGAGCGACGCGCCGCGATG
GTTTCCAACCTGTTGGTTGTGTTCCGACACCAATGCTCAGCCAATCGTCAACGCC
GGTAGCCTCTACCAA

>RXA02558-downstream

TAAGACAATGGCCCGCAAACAGG

>RXA02565

GCTGCTCTGGGCGATCTTGCCGATGAAGTAGAAATCGAACACCTCATCTCTGAAGAAGCA
ACGGTGAGCCCAACTGATTCCAGGTTGTATAACACCTTGGAAGAAAGTTCTTGGTGATTTT
TTCCCCGATGCGCCTGTGGTCCCAATTATTTCTCTGGTGGCTCTGACCTGCGCTTTGGT
CGTCGACTAGGCGGTGTTGGTTATGGTTTTGCAGTTCATGCACGTGAACGAACCTTTGGCG
GAAGCAATGGGGCAACTTCACTCCCATGACGAGGCGCTGTACCTGGAAGATCTTGAAGT
ACTGTTCCGGGTTATGACTCCGTCGTGCGTGAATTCCTAGGC

>RXA02565-downstream

TAAAAACATGAAGCAGGAGTCTT

>RXA02567

CTTATCCGCAACGCCTGCGTGAATGATCTAACCCAGATTCAAGGTGAGGAAATTAGAAAC
GCGGAAAGCCTAGAACGTTTCTTTGAAGGAACCCCAACGTAAAAATCACCAAGCTGGAA
CCGCATCCGGGCGGACCTCAATTATCGTGAAGTTCAGGCAGCGATCCAGATGCTGAG
CCTTTAACTACTGCTTGGACATACTGATGTTGTGCCTGTTGATCTGCCTAAATGGACTAAA
GATCCATTCCGGTGCAGGAGATTTCCGATGGACAGATTTGGGGTAGAGGGTCCGTCGATATG
CTCTTTATTACCGCAACCCAAGCGGCCGTACCCGTCAAGTAGCCCGTGAAGGCGGCCTG
CGTGGCACGCTGACATTCGTTGGCGTTGCTGATGAGGAAGCCCGCGCGGACTCGGAGCG
AAGTGGCTTTCCGAAGAACACCAAAACCTTTCAGCTGGAAAAACTGCCTCTCCGAATCC
GGTGGATCGCACCTTCCAGTCCACGACGGCAGCGACGAGTAGTAATTAACGTTGGAGAA
AAAGGTGCAGCTCAACGTCGATTACGTCATGCGGATGCTGGTCATGGTTCCATTCTT
TTCGACCGTGACAGCGCTATTGTCAAGATCGGTGAAGTCGCGCCCGAATCGCTGCCGCC
GATCTGAAGGTAGCCAAGGACGATATCTGGCAAGGCTTCGTCCAAGCGCACCGTTTCGAC
CCAGAAACGGAGCAGGCG

>RXA02574-upstream

TGTGCTCCTTGCGGGCTGCGCAGAAGAGCCGGAACAGCAAAAAGCAATAAGCCGCTTATC
GACGTCCCCCTCCACCCCTCCCGCACCGACCGCGGAGGAT

>RXA02574

TTGGCGCGCGCAAATCCCTGAACAGCAACGCGACCAAGTCGCGTCGCTGATGATGGTT
GGAGTTGCGAATTATGATCAGGCATTGGATGCGCTCAATCAGGGGGTGGGTGGCATCTTT
ATTGGTTTCTGGACAGATGAAAATCTGCTCACGGAACCTGGCCGTAATATTGAGGCGCTC
CGCGAAGCCGTCGGCAGGGATTTCTCCGTAGCATCGACTTCGAAGGCGGCCGCGTCCAG
CGTGCCACCAATATTCTTGGTGATTTCCCCTCACCGCGCGTGATGGCGCAAACCATGACG
CCGGAACAAGTAGAAGATCTCGCAGAAATCCTAGGCACTGGTTTAGCTGCACATGGTGTG
ACAGTTAACTTTGCACCTGTTGTAGATGTAGATGCTTGGGGTCTCCCCGTCGTTGGCGAT
CGTTCCTTTTCCAACGACCCAGCCGTAGCAGCTACTTATGCCACAGCTTTTGGCAAAGGGC
TTAAGCAAAGTAGGAATTACCCAGTATTCAAACATTTCCCAGGTCACGGTCGTGCAAGT
GGCGATTTCGCACACCCAAGATGTGGTGACCCCGCACTTGATGAGCTTAAACTTACGAC
CTCATCCCTTATGGTCAAGCACTTTCTGAAACTGACGGAGCCGTCATGGTGGGCCACATG
ATTGTTCCAGGTCTTGGCACCGACGGAGTTCCATCCTCTATCGACCCCGCCACCTATCAA
CTGCTCCGCACTGGCGATTACCCAGGTGGCGTGCTTTTCGATGGCGTGATCTACACCGAC
GATCTCTCTGGAATGAGTGCCATTTCCGCCACCCATTACCCGCGAGAAGCAGTGCTTGCC
TCCCTCAAAGCAGGCGCAGACCAAGCACTATGGATCGACTATGGGTCGTTGGGCTCCGCG
ATTGATCGCGTTGATGCTGCCGTTAGCAGCGGTGAATACCCCTCAAGAACAAATGCTGGCA
TCTGCGTTAAGAGTCCAATTGCTCTACATCACACGTCTCGAACAAAAG

>RXA02574-downstream

TGAAGTTACCAAGTCCGTAACCCC

>RXA02589-upstream

GCCTAAATTGCAGCGAGAGGTCTAAAAGGTAGTGCTCTAGGGATTCTCCAAACTCACGA
ATATTGAAGTTTTTAAAGTTGAACAGGAAAAATAACAAATA

>RXA02589

ATGTCTATTTCTGATAATTCCCGCGATCAATTAGGAGAACTGCCAGCTGGTCGGCCTCTC
CAATCCGATTTTGATAATGACCTCGACTACCCACGTCTAGGCAGTGTCACGTTTAGGCGT
GGCACCCTCACTGAAAACCAGCAAACCATGTGGGATGAAAAGTGGCCTGAACCTGGGTGCG
GTCCTCGAAGATGAGCTGATTGATGTTGATGCGTGGTTTCGGGCGCGAAGGCGCAAAAACC
ATCGTAGAGATCGGCTCTGGCACTGGAACCTCGACTGCTGCCATGGCTCCACTTGAGGCT
GATACCAACATTGTCGCCGTCGAACTATAAAGCCGGGCTTGGCCAAGTTGATGGGCTCT
GTTGTCCGTGGAGAGATCGACAACGTGCGCATGGTCCGCGGAGACGGCATCGAGGTGCTC
AACCGCATGTTTGCCGATGGGTCCCTGGACGGCATCCGCGTATACTTCCCGGACCCTTGG
CCAAAGGCGCGCCACAACAAGCGCCGCATCATCCAGTCTGGTCCGCTGAACCTGTTTGCA
AAGAAGCTCAAGCCAGGTGGAGTTCTGCACGTTGCTACCGACCACGCTGATTACGCAGAG
TGGATCAATGAGCTAGTTGAGGTGCAACCACTGCTTGAGTACAAAGGCTGGCCATGGGAG
GAATGCCCTCAGCTGACTGACCGTCAGGTGCTCATCACCAAGTTTGAAGGCAAAGGCTTGGA
AAAGATCACGTGATCAATGAGTACTTGTGGCAGAAGGTGCAAAAAC

>RXA02589-downstream

TAATGTCTGATGTGCATGAGGTC

>RXA02592-upstream

AAACACCACCATTTGTTCCCTCCATCGACGATGCCATCACCACCATTTTGGCATGGATGAA
CGGCGAAGACATCCGCGACCTCAACTGGACCCGCGCATAA

>RXA02592

ATGGCCTCATTTCCGGAGCTTCCGGCTCTTCGTGCTTGCTTACCTTGGGCAGGTGCTGG
GGTTTACTGTCTGATTTCAAATACGAACAAACCCGACCTGACATCTTTTACGGAAACCTG
GCCCTCGATACCTCGAGTCTGGTGGCGGCTTTGTCTGAAGATATTTCTGGCGCCGGATTA
AATGACCTGAAAAGTTCTCGACGTCGGCGGCGGACCCGGATACTTCGCCGAAGCCTTTGAG
ACACTGGGCGCCACCTACTTCTCCGTGCAACCCGACGTTGGCGAAATGTCCGCAGCTGGC
ATCGACGTCCACGGATCAGTCCGCGGATCCGGCCTCGACCTGCCGTTTCTTCCCGATTCC
TTTGACGTGGTGTACTCTCCAACGTTGCAGAACATGTCTCCGCACCGTGGGAATTGGGA
GAAGAAATGCTCCGCGTCACCCGCGAGCGGCGCTGGCAATCCTGAGCTACACCATTTGG
TTAGGGCCCTTCGGCGGCCATGAAACCGGACTGTGGGAACACTACGTTGGCGGAGAATTT

GCCCCGCGATCGCTACACGAAGAAACACGGGGCACCCGCCTAAGAACGTTTTTCGGGGAGTCA
CTGTTTAAATGTGTCTGCGGGGAGGGGCTGGAATGGGGAGCCTCCGTGGGCAATGCGGAA
TTGGTTGCCGCTTTTCCCCGCTACCAACCCGTATTGGGTCTGGTGGATGGTTAAAGTCCCA
GTGCTCCGAGAATTGCGGGTAAGTAACCTGGTGTGGTGGTTAAAAAGCAC

>RXA02592-downstream
TGAGGTTTTGAGGAATTCATCGC

>RXA02603-upstream
GCATGGTGCTTGGCGTGCATTACCCAACCGATGTGCTAGCCGGCGCGTTGTTGGGAGCAG
CGACCGCAGAGGCCGTCCATAAGATCGAAAGGGCTACGAA

>RXA02603
GTGAGCGAACACGCCGCTGAACATCACCGCGATACCCAAAATTTCTTAACCTCCGAACCG
CACACCACGGCAATCGAAGACAACAAGAAGCGCCAACCGCCGAAAAACCTTGCTGACGGC
ATGATCAAGGCGCTGCGCCCCAAGCAGTGGGTCAAGAACGTTCTTGTGCTAGCAGCACCA
CTTGCTGCTGGTGCAGATGCGATCTTCAACCAGCGCACGATCATCGACGTTGCTATCGCA
TTCGTAGTGTTCTGCTTCGGTGCATCAGCCATTTACTTGGTTAATGATGCCCCGTGACGTG
GAAGCTGACCGCGAGCACCCAACCAAGCGTTTCCGCCCCATCGCTGCAGGAGTCTTGCCA
GTAGGAATGGCATAACGGCATGGCCGTGGCGCTCATTGCACTATCCATCGGACTGTCTTTC
CTCGCCACCGACGGCGTGGCACTTGCCCTGCGTGATTGGCGTGTACATTGCGCTGCAGCTG
GGTACTGCTTCGGTTGGAAGCACATGCCAGTGATCGATATTGCGCTTGCTCCTCCCGGA
TTCATGCTCCGCGCAATGGCAGGTGGTGTGCGCAGCAGGCATCGAGCTATCCCAAGTGGTTC
CTGCTAGTCGCTGCGTTTGGTTCCCTGTTCATGGCATCTGGAAAGCGCTACGCAGAAATC
CTTCTGCACGAGCGCACCGGCGCTAAGATCCGCAAGTCCCTGGAAAGCTACACCCCCACC
TACCTGCGCTTCGTTTGGACCATGGCAGCAACAGCAGTGGTCATGTCCTACGCACTGTGG
GGCTTCGACCTTTCCCAACACTCCACCGACGCGAGGTCCGTGGTACCAAATCTCCATGGTT
CCATTACCATCGCCATCCTGCGCTACGCAGCCGGCGTAGACACCGGCGACGGCGGTGCC
CCTGACGAAGTGGCACTCAGCGAAGTTCGTCAGGTACTAGCCCTAGCATGGGTTTTC
TGCATCGTGATGGCTGTGTACATCATGCCGATGTTT

>RXA02603-downstream
TGAATATTTACCAATGAACATGC

>RXA02630-upstream
GCGGGTTTGGAAAATGTCGATGATTAAACCACTAAAGAGCTCACAGGAAGTGTTTCACTA
CTTAGAGTGACGCCCCAGCCACAGGGTTCATAATCAAATC

>RXA02630
ATGACAAATCAATTCCCCACAAACAACGGTGAGAACCCGGACCGTGATCGGAAAACCTCCA
TCAGAAACCAACTCCTTCGAACATGTGCGTAGTTCATATCCGCGAGTGGGGTAACACTGCT
TCCAATCAAAACCCCTATCCTGGTGCAGGGCTTCGGCTCTGAACAAAACACTCAACAAGGA
AATGAGCAACAAGCTCCAGCCTGGACAGTTGGGATAATCAGCCTCTAAGCACAGATGTA
AAGCCAGCTAAAGAAAAGCGAAAAGTTGGCATCGGAACGGCACTCGCGTTAATGCTTGTT
GGTTCTATTGCTACCGGTAGCGTTGTGGGTGTTGCAGCAACCCAGCTTGGTTCCGACTCT
TCAACCCAGTTAATGCTCTTGAGCAGCCAGCGTGACGCGACCACTAATGCTGAACCA
GGTTCAGCGGAACAGGTGCTGCCGAGTTTTGCCTTCTGTGCTCTCTATTACAGGCCATT
ACTAGGACGTCTGCTTCTGAGGGCTCTGGATCCATTATTTCTCTGATGGTTACGTCATG
ACCAATAATCACGTGCTGGCAGGCATTGAACAATCTGGTGTGTTAGAAGTAAGTTTCTCC
GATGGAACCTACAGCGCAAGCTGATTTTATTGCTGGTGATCCTTCCACAGATATTGCTGTG
ATCAAGATTAGGGATGTGTCCAACCTTCCAGTTATGAGCTTTGGAGATTTCGGACGCATTA
GGCGTTGGACAAAGTGTGATGGCTGTTGGTTCTCCACTGGGTCTGAGCTCCACTGTGACC
ACCGGTATTGTGTCGGCCGTGAACCGTCTGTGCGAGCTTCTGGTGATGGCGGAGAGTCG
TCCCTCATCGATGCTATCCAGACCGATGCTGCGATCAACCCTGGTAACTCTGGTGGTCCG
CTGGTTGATATGGATGGCAACCTCATTGGCATGAATTCGGTAATTGCATCGATTTTCGAGC
ACCAGCGATTCCGCGAGGTCCATTGGTCTTGGTTTTTCTATCCCATCCAACCTTTGCCAAG
CGCGTGGCCGATCAATTGATCAGCACCGGCCAGGTAACCTCAGCCGATGATCGGTGTGCAG
GTTGGCACTGACAACTCAGTGACAGGCGCTGTGATTGCCAGTGTTCAAGATGGTGGACCG
GCCGCAGATGCTGGACTTCAGCCAGGCGATATCGTGACCAAGCTCAATGATCGAGTTATT

GATAGCCCAGACTCCTTGATCGCTGCTGTTTCGTTTCGCATGATTTTGGCGAAACCGTCACT
TTAACAATTACACAGCCAGATACCTCGCAGAGCCGGGAGGTAGAGGTTACTCTGACGAGT
GAG

>RXA02630-downstream
TAGGTTTAAAAGAGTTAATCTGC

>RXA02641-upstream
AGGCTTCTCAGTTGTTTCATATAGTCTCAGCCGCACCAATATCATCAGGGAGAACATCGT
GCAGCAACGACGCCGCATCAGCGAGACTCGGAAAAAACCG

>RXA02641
ATGCTCGCTATTATTTTGACCGCCGTATTGGGCGCATCTGGCCTTGCAGCCGCTGGCACT
CAGTACCTCAATACTCAGGGCGAAGGCATCGGTCCGGTCGCCGTCCAAAACGACAGTGAA
TCGTTTAAATCCGGCACCAACGTGGTTGTTGAAGACGCAGCAGTCACCGCCAGGGTGAA
GGCGGAGGCGCTCGCACCGTCAAGGAATTCAGCGTGACCAGCAATTCTCTAGTTTGTCT
CTTACCTGGACCGGTAAAAAAGACATCACTGCTTTTGTTCGCGCAGAACAGGAAGACGGC
ACCTGGTCACAGTGGTACGACTTGGAGCCAATGGTCAATGAAGATCAAGGCACCAACGGA
ACTGAGCTGATCTGGCAGCGCCCTACCAACAAGATCCAGGTTTCCACCCTCAACGTGGAT
CTCTTTGGAGCAGATGCTGCAGCCGCTGATGAAAACGGTCAAGACATTCCAGCAGTAGAT
GCAGCCGAGGCAGCGCCAGCAGCAGAACCTGCACCAGCTGAAGCACCAGTCGAGGAAGCT
CCTGCACCTGTGCGAGAACCAGCACCAGCTGCTGAACCTATCGCTGAGCCAGTCGCTGAT
TACTCAGCAAATGACGGCCTCGCTCCCCCTGCCATCCAACCTATGGCGACATCCAGCCTGTT
GCCGATGTTGATGACGGCCTAAACGCAGTATTTATCGATGGCAACGCTGATGCAGGCGTG
GGTATCGCTAACGTTGCTGACACCGATGGCATGCCAAAGGTGATTTCTCGTGCTGGTTGG
GGTGGGACGAAAGTCTGCGCTGCTCAAACCCAACTATTGATGATGGCGTTTCTGCGATC
ACCATTACACCACTGCGGGTTCCAACAACCTACACCGAGGCGCAGGCTGCAGCCAGGTT
CGTAGTGCTTACAGCTACCACGCCAAGAACCTCGGCTGGTGCGATATCGGATACCAGTCA
TTGGTTGATAAGTACGGCAACATCTACGAAGGCCGTGCCGGCGGCATGACCAATGCTGTT
CAGGGTGCTCAGCTGGCGGCTTCAACCAGAATACTTGGGCAATCTCCATGATTGGCGAC
TATTCTTACAACGCTCCCCCTCAGGAAACCATCAATGCTGTCGGTGAGCTTGCTGGTTGG
CGTGCAAAGGTTGCGGCTTTCGACCCAACTGGGACTGATACTCACTACTCGGAGGGTACT
TCTTACGCGAAGTACTCCTATGGCACCCGAGTGTCACTTCCTAATATCTTGGCTCACCGC
AATGTCGGCCTGACCGCATGTCCTGGCGATGCTGGCTATGCGCAAATGGAGAATATCCGC
CAGATCGTTAAGGCAAAGTACACCAGCTTGCAGAATGGCAACACAGGTGGCAGCACTACC
ACCCCGGCGACAACGCCGAAGGAGACGTCGACAAGCAATGCTCCTTCGACGACCACTGCC
CAGCTTGTAACCTCCCGCTGAACCTCAGCAGTACAGCGAATCCGATGCCCTGGCAGCTCTG
CTGACAGGTGGCTCTTCCGGCGGCACCGACCTGCTCAATGGCGCAAACCTCTGAGCAGCTC
CTGACTGGCCTGGGTTCCATTCGCGCTGTGCTGATTGCTGCGTCTTTGGCTGATGGTGGC
CTGAATGGTCTGATCAGCAATGTTGGTAGCAACAACGGCGTCCCAGTGCTTGGCGATATC
AAGATCACTGACGTCATCCCAATCGTTGATACCGCGATCAACCTAACCAGGAGACAATAAG
TACTCTCGCGTTTGAACGACCTGAACAACACGCTTGGACCAAGTGCTTGGCGCTGCCACT
GGTGGCGAAACACCGTGAAGTACACCAGCGACCAAGAACTCTGAGGTTACTTTCTGTGCCG
TTTGAATATGGCATCATGGTGTCTTCCCCTGAGGCTGGAACTCACGGCCTGTGGGGCGCA
ATCGGTGACGCGTGGGCTCAGCAGGGCGCTGACCTTGGCCCTCTGGGACTTCCAACCACT
AATGAATACACCGTTGGCGAACAGCTTCGTGTTGATTTCCAGAATGGTTACATCACTTAC
GATTCTGCGACTGGCCAGGCAAGCATTACAGCTGAAC

>RXA02641-downstream
TAGTCTCAATTAGAGCCGAAAAAC

>RXA02643-upstream
TGAGAACACCTAAAAACCTTGGCGGAATACCACCAACCCCATATTGTTGATATATCTACA
AACTCTTTTAATAAGTCTGATCAACAACGTGAGGAAAGCA

>RXA02643
ATGAAAAACGTCTCCTTCGGCCTCGACACCTTCGGCGACAACGCCATCGACCTGCAGGGC
AACCCGGTCTCCCCTGCACAAACACTTCGAAACATCATTGATGAAGCCAAGATGGCAGAC
AAAGTCGGGGTGATATCATCGGCATCGGAGAGCACCACCGTGAGGAATACTCAGTTTCT

GCACCTGACATCGTCATGACAGCTATCCTCGCATCCACTGAGCGACTCAAAGTCACCTCT
 TCCGTGACTGTGCTGTCTCTGATGATCCTGTTTCGCCTGTTTGAGCGTTATTCCACCATG
 AATGCACTGTCCAACGGTCGCGCCGAAATCACCTTGGGACGCGGTTCCCTTCATTGAGTCT
 TTCCCATTTGTTTTGGTTTTGATCTTCAGGACTACGAGCAGCTGTTTAGTGAACGCCCTTGAT
 TTGTTTCGCGAAGATTCTTGAGGCCGACAGCCGTGGTCAGGGCGTGACCTGGCATGGTGAG
 ACCCGCTCGGCGTTGGAAAACCAGATGCTTTACCCACCAACTGAGAATGGCATTACGCT
 TGGGTTGCAGTGGGTGGCAGCCAGAATCAGTCGTGCGCGCTGCTAAGTATCGTTTCCCG
 TTGATGCTTGCCATCATCGGCGGTGCTCCTGAGCGTTTCCGCCCGTATGTGGATCTGTAC
 AAGCGTGCCAACGAACAGTTTCGGGCAGCCTCAAAGGCCATTGGTGTGCACTCCCCCTGGA
 CTCATTGCGGCAACTGATGAGGAAGCCCCGTGAGCTAGCACTTAATGATTGGTTGGAACCTC
 CAACGCAAGATCGGTGCTGAACGCGGTTGGGCTCCTGCGGATGCAATGCAGTTTGAACGC
 GAAATCGATCAGGTTCCCTTATACATCGTTCCCTGAGACGGTCGCAAAGAAGATCGCC
 AAAACCATTTTCAGTGCTTGATCTTGATCGCTTTACCCTCAAATACGCCAGTGCCGACAGC
 CCTCATGAGTACTTGCTGAAGTCCATTGAGTTGTATGGCACTGAGGTTATTCCGCTGGTG
 AAGGACATCTTGACCAAGCAGGCT

>RXA02643-downstream
 TAAGAAGGTCTTAGGACATTCCC

>RXA02644-upstream
 CGTGGGGAAGTGGAGCCCACACTGAAAAGCTTTGCGAGGTCAACATGGCCACCAGGCTAG
 TGAAAATGCTGCCGTTGGCGAGCTAAGATGTGAGATGCT

>RXA02644
 ATGGCACATCTCAGCAATACCAACTCCCTCAGGCCGGTCAAGTCTTTGAGCATGAACTA
 GAGATCAAGCGCTCGCGATTCTGACCTATATCACGCGTGTGCAAGATCAGGAGCAGGCT
 CGCGAATTTATTCACTCCATCAAGGAGCTGTATCCGGATGCGCGTCATCATTGCAGTGCC
 TTTATTTTCCATGTGGATGGCTCAAATGATGTGGAGCGTTCCCTCTGATGATGGCGAACCT
 TCCGGTACCGCGGGAAAACCCATGCTAGAGGCCGTTGCGTGGCTCGGGAATGAAAGATATT
 GCCGTCTGTGGTGGTGCGTTATTTTCGTTGGCTGAAACTGGGCACTGGCGGATTAGTTAAT
 GCCTACACCAACGCGGTGACGAGCTTCTACCTGAGGTTTTGCAAGTACCCGCTCTGTT
 CGGGAGATTTTCAAGATTGACCTTCCGCATTCTGATGCGGGGCGCATTGAAGCGAATCTG
 CGCGGCATGGGCATCATCTACTGACACTGAATATGGTGCAGAAGTCACATACACCTTG
 GCTTTATTGCCTGGTGAACAGGCTGCGGTGGAATCTCAATTGTCATCCATGATGGGTGCA
 GAAATTGAATTGAAAGAATCCGGGCACATGTGGGTGGAATCCCCGAGTGAC

>RXA02644-downstream
 TAGTGCGGTGTAAGAGCACTAGA

>RXA02702-upstream
 GCAGGTAACGCCCTCCACGGTGATTGCAGACATGATTGCTGCAACTATCAATAGCCAAACAC
 AACTAAACGACCAGCTCAACGCAAAGGAATAGTTTAAAG

>RXA02702
 GTGACCACTCCACACTTGGATTCTGCACAAGATATTGATCTGTCCCGCGTCCACCTCATC
 GGTATTGGCGGAGCCGGAATGTCTGGCGTTGCCGAATCCTGCTTGCCCGCGGTAAAGACA
 GTCAGTGGTTCCGATGCCAAAGATTCGCCGACCTTGCTTCCACTCCGCGCCGTGGGAGCC
 ACCATCGCAGTGGGACACGCTGCGGAAAACCTTGAGCTTTCCGGCGAACTTCCACCGTC
 GTGGTGACCTCTTTTGCCGCCATTCCGCAAGACAACCCGGAATTGTTCTGTCACGTGAA
 GAAGGCATTCCGGTTATTCTGTCGCTCCGATCTGTTGGGCGAATTGCTGGAAGGCTCCACC
 CAGGTCTTGATCGCGGGTACCCACGGTAAGACCTCCACCACCTCTATGTCTGTGGTAGCT
 ATGCAGGCAGCGGGCATGGATCCAAGCTTTGCTATCGGCGGACAGCTCAACAAGGCTGGC
 ACCAATGCGCACCATTGGAAGTGGTGAGGTCTTTATCGCTGAAGCAGATGAATCTGACGCA
 TCGCTGCTGCGCTACAAGCCAAATGTTGCAGTGGTCACCAATGTGGAACCAGACCACCTG
 GACTTCTTTAAAACCCCTGAAGCCTACTTCCAAGTGTTTCGACGATTTTCGAGGACGCATC
 ACCCCGAACGGCAAGCTGGTTGTGTGCCTGAACGATCCTCACGCAGCGGAGCTGGGGGAG
 AGGTCTGTCCGCAAGGGTATCAAGACTGTTGGTTACGGTACCGCTGACGCCGTACAGGCA
 CACCTTGAGGTTCCAGCGATGGCTACCATCGTGATTCCCAAGTTGTCGCGAGAAGGCACC
 CGCGCCACCATCAACATCGATGGACAGGAAGTATCTGTGATTCTTCAAATCCCTGGTGAT
 CACATGGTACTCAACGGTGCAGCCGCCCTGCTGGCCGGATACCTGGTGGGTGGGGACGTC

GACAAGCTTGTGAAGGCTTGTGCGGATTTCTCCGGCGTGCGACGCCGCTTTGAGTTCCAC
GGTGCTATCGAGGGCGGCAAATTTAATGGCGCTGCTATTTATGATGATTACGCACACCAC
CCAACGGAAGTAAGTGCAGTGTCTAGCGCTGCGCGCACC CGGGTGAAGGCCGCTGGAAAG
GGCCGTGTATCGTTCGCGTTCCAACCAATTTATACTCACGCACCATAGAATTC AAAAG
GAGTTTCGCGGGGGCACTGTCTACTGGCAGACGCTGCCGTGGTGCTTGAGATTTACGGAGCG
CGCGAACAACCGGTGGATGGCGTGTCTCGGAAATCATCACCGATGCGATGACCATTCCA
GTGGTGACGAACCTAATTTCTCTGCAGTCCCAGAACGCATTGCAGAAATCGCAGGACCT
AATGACATCGTGCTACCATGGGTGCAGGTTCCGTGACCATGCTTGCTCCAGAAATCCTG
GATCAGCTGCAAAACAAT

>RXA02702-downstream
TAGGACGTAAGTGAACAAGGCAG

>RXA02703-upstream
CAAAGCAGGCCTACCGAGCGCCGTTCCGAGAGTCGCGCGATGATTGGCGTGACAACCGCA
ACCGCAGATAAATGTGAAATCAGGAGAACTACGAATAAAG

>RXA02703
ATGGCTAACTCCCCAAAACCCATGCGGGTTGTGCTTGGTGCGGTACCGCAGGACAT
ATTGAGCCTGCGTTGGCAGTGGCTGAAGCGCTGCGCGATAAGCACGGTGCAACAGTTTCG
GCTTTAGGTACTGCTCGTGGTTTGGAAACAACCTGGTGCTGATCGTGGGTTTGAGCTT
CATCTCATCGAGCCGGTTCCAGTCCCACGCAAGCCCAATATGGATTTGTTGAAGCTCCCA
TTCCGGGTAGCTAAGGCATTAGGCCAAGCACGCAAGGCACTGAAGGACACAGACGCTCAA
GCGGTATCGGCTTTGGCGGTATGTATCTGCTCCGGCTTATATGGCGGCGAAGTCTTTG
GGCTTGCCATTTTTTGTCCACGAAGCCAACGCCCGTGAGGCATGGCCAACAAATGGGGC
GTCAAGCTCGGTGGCGTTGGCCTTAATGCTGTTGCTGGTTCCGGCATGGACGGCGACGTG
GTGGGCATTCCGATTCTGTGCTGTTTTAAGTGGCGCGCGGGATGAGTCCGCAGCTGACCGA
GCCAGGGACACTTGGGGTTTGGACAAGGACCGCCAAACCATTTTTGTACCCGGTGGTTCG
CAGGGCTCTGTGAGTATCAACAAGGCCGTGAGCAAGCTGTAGATCAGCTGGTGGAGGCA
GGTTTCCAGGTGCTCCACGCCGTGGGTAAAGAAAACGAGTTGCCTGCAGCGAAACCCGGC
TACCATCCCGTTCCGTTTATCGACGATATGACAGGCTGCCTACACCGTTGCTGATCTTATC
GTGTGCCGCTCCGGCGCGATGACGGTTGCAGAGGTACCGCCGCCGGCGTCCCCGCGATT
TATGTCCCGCTGCCTCACGGCAACGGTGAGCAGGCTCTCAACGCCAGGCTGTCAATAAA
GCTGGTGCCGCACGCCAGATCGACGACGCGGACTTACCGCCCAGACGCTTATCGACGCC
ACCCTTGACATTCTCCTTCATCCCTCCACACACCAATCGATGTCGGACGCAGCTAAAACC
TCCACCGCAGGTAACGCCTCCACGGTGATTGCAGACATGATTGCTGCAACTATCAATAGC
CAACACAAC

>RXA02703-downstream
TAAAACGACCAGCTCAACGCAA

>RXA02704-upstream
CGTCTTTGGACATGTTCAAAGGCATGGGCCAGCGTGGCGACCTCTTTGCACACAACATCA
TTGGCACAATCAAAGGATTAACGGAAGAGAAAGGCTGATC

>RXA02704
ATGACCACCGGAGCCTCAAAAAAACCCGCACGTCCGAACACTGGCGCTAAAACAGAACG
GGGCTGGGAATTAGGGAGCGTATTTCCGGTGCAATGGAATGATCTTCTCGCGCGCCCTTTA
ACTGACTACATCATGATCTTGTGCATCGTGGTCATTTTGTGCGTCCCTCGGTGTAGTCATG
GTGTATTCTCTCAATGACATGGTCGTTGAGGGAAGGTGGCTCCGTGTGGGGTACTGCC
GTGCGCCAGGGCATCATGATCGTGTGGGTTTCTTTGCCATGTGGGTGGCGTTGATGACG
CGCCCGCAAACCATAGAAACCTATCCAACCTGATATTGATTGTGTCTATTGTCTTGCTG
CTTGCCGTGCAGATTCTTGGCATTGGTACAGGTAAGAAGAGGTGGGTGCGAGTCGTGG
ATTGCTCTTGGACCTATTAGTTTTCAGCCTTCGGAGATCGCCAAAGTGGCCATTGCCGTG
TGGGGAGCGCACTACCTCGCAGGCAAGGGCCCTGTGCAGCACTGGTTCAATAATCACTTG
ATGCGTTTTTGGTGGCGTCCGTGCATTATGGCGTTTTTGTATCTTCATGGAAGGCGACGCC
GGCATGGCGATGTCTTTCGTGCTGGTTGTATTGTTTCATGCTGTTTTTTCGGGGCATCGCC
ATGGGTTGGATCGCGATTGCCGGCGTACTGATTATCGCAGCCCTCGCAGTCTTGGCATTG
GGCGGAGGCTTCCGTTCAAGCCGATTTCGAGGTGATTTTCATGCGCTGTTTGGCAATTTT

CACGATGTGCGAGGCATTGCCTTCCAGTCCTATCAGGGCTTCCTCTCTCTTGCAGATGGT
TCCGGCTTGGGAGTTGGTTTGGGCCAATCAAGGGCGAAGTGGTTCTACCTGCCCGAAGCT
AAAAATGACTTCATCTTTGCCATCATTGGTGAGGAGCTGGGGCTGTGGGGTGGCGCTCTG
GTCATCGCACTTTTCGCGGGGCTGCTGTACTTCGGTCTGCGCACAGCCAAGAAGAGCCAC
GATCCATTCTTGGGCTTGATGGCTGCAACCTTGACGGCATCCGTGGTGTGCGAGGCGTTC
ATCAACATTGGCTACGTGGTTGGTCTGCTGCCAGTTACCGGTATTTCAGCTGCCCCATGATT
TCCGCCGGTGGTACCTCCGCGATCATTACCTTGGCTTCCATGGGCTTGCTCATTAGCTGT
GCACGCCACGAACCAGAGACAGTTTCTGCGATGGCTTCCTATGGACGCCCCGCAATCGAT
CGACTTCTGGGATTGCGTGAGCCTTCAAGTACTTTGACCACCAGTAATGCATCCTTGCGT
TCCAACAAAACCAAGGCCGCTAAACAAAAGCCGAGTCCTCAGAAAGAGTCTCGGGACCGC
TTCGGCGAGCCTGTGACCGCACGCCGAGCGCAGGCGCCACGAAGTGGGCGAGCTGGAGTA
CAATCGGAAGCTCCGCGACGCTCGACTGGTAGCGTCAAAGGTGCAAGCAGTGGTCAGGAC
AACGGTCGAAGCAACGAAGGTACGGCGCGTAGCCAATCAACTACTGGTGGGCGCGCAGCC
GATCGCAGCGTTGATCGAAGTCGTCAAAGCAGGCCTACCGAGCGCCGTTCCGAGAGTCGC
GCGATGATTGGCGTGACAACCGCAACCGCAGATAAATGTGAATCAGGAGAACTACGAAT
AAAGATGGC

>RXA02704-downstream
TAACTCCCCAAAACCCATGCGGG

>RXA02705-upstream
CGTGACCATCCGTTTCTGGCTGATCGCGATCATGGCTGTGTTGGCGGGTGTGCGGTGTGTT
TTACAGCGACTGGCTCCACTTAGCGGAGGTATAAATAATT

>RXA02705
ATGGGTTCTCTGTCCCATTACCTCAGGCGCTGCAGGGCCGTATTCTTGTGGCCGGCGCT
GGTGTTCGCGCTGTCCATTGCAAAGATGCTCAGTGAGTTGCATTGCGATGTTGTGGTC
GCCGAGCATACGAACGACGTCACGTCACATGCTCATTGAAGTAGTAGACGTTGCAGATATC
AGCACCGCGCAGGCTCAGGAACAGCTGGATTCTTTCTCCATTGTGGTCACCTCCCCGGGC
TGGCGCCCAACAAGCACTTTGCTTGTGCGACGCCACCGCCAGGGCCTTGAGGTTATCGGT
GACGTCGAGCTTGCTTGGCGCCTGGACCAGGCAGGTGTTTTCGGCGAGCCACATACGTGG
CTCGCAGTCACCGGCACCAACGGTAAAACCACCACCATCAATGCTCGCCGCGATGATG
AATGAGGGCGGTTTTACTGCCAAGGCAGTGGGCAATATCGGCATCCCGGTGTCTGAGGCT
TTGGTAGCGAAAAACCGCATTGATGTGTAGTTGCAGAGCTGTCTAGTTTCCAATTGCAC
TGGTCTCCAACCTTCAACCTGATGCTGGCGTGGTGTCAACTTGGCTGAGGATCACATC
GATTGGCACGGTTCCATGCGTGATTATGCGTTGGCCAAGATGGAAGTGTCAAGGGCAAG
GTCGCCATCATTGGGGCAGACGATCCTTATTTGGTGCAGCTGACTTCTGAAGCAGACTTG
AGTGGTCTCATTGGATTACCGTCAATGAGCCTGCAACCGGCCAGTTGGGTGTGAAAGCG
GGGGAGCTCGTCGATAATGCCTACGGCAATAATGTGGTGTGTCATCCGCTGACGGCATT
AATCCCGCCGGCCCTGCCGGTGTGTTGGACGCTTTGGCTGCAGCTGCGGTGGCGCGCTCG
CAGGGCGTGGCACCTGAGGCGATCGCGCGTGCCTTGGATTCTTTGAGGTGGCAGGCCAC
CGTGGCCAGGTCGTCGCCGAGCATGACGGTGTTCAATTCATTGACAACCTCCAAGGCGACC
AACCCCCACGCTGCTGATTCTGCGCTAGCTGGGCATGATTTCAGTCATTTGGGTTGTGCGC
GGACAGCTCAAAGGCGCGGACATTGCGCCACTGGTGAAAAAGCACGAACAGCGCATCAAG
GCAGCATTGGTGTGTTGGGCGCAGATCGTGCTGAAATCGTGGCAGCGTTGAAGGAACACGCG
TCGCAGGCCTCTGTATTTGTCACTGACAAGACGAGCCATTGAGGCAATGGAAGAAATC
GTCACCTGAGGCATTTAGCATCAGCGAACCCGGCGATACCGTGTTGCTTGCCCCTGCCGCT
GCGTCTTTGGACATGTTCAAAGGCATGGGCCAGCGTGGCGACCTCTTTGCACACAACATC
ATTGGCACAAATCAAAGGATTAACGGAAGAGAAAGGC

>RXA02705-downstream
TGATCATGACCACCGGAGCCTCA

>RXA02706-upstream
GGTGCAGAAGCACTACATGGCATGGTGCCGGGCTCAAAAACACAGGTGGCTCGGTCAA
CGACGATTCTCGTCGGAACGTGGAAGGACAGTAGAAAACA

>RXA02706
ATGCAACAGATTATGGTCAGTGGAACGGTTGCGTTCCTCGTCTCAATCTTTCTACCCCG

GTGTTGATCCGTTATTTCACTAACC GCCAGTTGGGCCAGGAAATCCGTGAAGAAGGCCTG
 CAGTCTCACTTGCCTAAGCGTGGCACTCCAACCATGGGTGGCATTGCGATTATCGCGGGC
 ATTGTTGTGGCCTATGTGTTTACCAATATCTTGGCCATGATCCAAGGCGTTGGTGGATTG
 ACAGTCTCCGGCTTGCTCGTGTGGGTCTGACCTTGGGCCTTGGTGCCACTGGTTTCGCC
 GATGACTTCATCAAGCTGTACATGAACCGAAACCTTGGTTTGAACAAGACCGCTAAGCTG
 GTGTCTCAGCTGGCCATTGCGTTGATCTTTGGTTTTTTGGTACTGCAGTTTCCCGATGAA
 AACGGTCTGACCCAGCATCAACCCACCTGTCATTTCATTCGCGATATCGACACCATTGAC
 CTTGGCTTCGGGGGCGAGCGTTTTTGGCATCATCGTGTTCCTCATCTTTATCTACGTTGTG
 GTCAGCGCGTGGTGAATGCCGTGAACATCACTGACGGTTTTGGATGGTTTTGGCCGCGAGGT
 ACCACAGCATTTGTCTATGGGTGCTTACACCTTGATCACGTTCTGGCAGTTCCGAAACTCC
 TGCGATACTGCAGTGGAAGCGGGTTGCTATACGGTGCGTGATCCACTGGATTTGTCCGTG
 TTGTGTGCTGCTGGTCTGGGCGCCACCTTGGGCTTTCTGTGGTGGAATGCGGCGCCGGCA
 AAGATCTTCACTGGGCGATCTGGTTCTTTGGCACTGGGCGGTTTTGGTTGCAGGTATTTCT
 GTGGTTAGTCGACCGAGCTGCTCATGGTTATCATCGGCGCGCTGTTTGTCTATTGAGATC
 GCTTCTGTTGCGATCCAGATCGGCGTGTAAAGACCGCGGTAAAGCGTGTGTTCAAAATG
 GCTCCGATCCACCACCACTTCGAGGCCCTTGGGTGGGCTGAAACTACCGTGACCATCCGT
 TTCTGGCTGATCGCGATCATGGCTGTGTTGGCGGTGTCGGTGTGTTTTACAGCGACTGG
 CTCCACTTAGCGGAGGTA

>RXA02706-downstream
 TAAATAATTATGGGTCTCTGTC

>RXA02707-upstream
 TACAACGCAATCCTGATTCTATGCGTGCAGGTATCGCGGCTCTTGCGTACACAGCTAGT
 GGTGCTTCTGAAGCAACAAAGCTGGGCAGTGCTTGGCCAA

>RXA02707
 ATGGGTGAGCTTGGCGATGACGCCTCGGAAGCCCATGCCGAACCTGGTGCTGAGCTGGCT
 AAATACAATGTTCAAGAACTTGTGCGAGTGGGGGAGAACCCTAACTGTGCAGCACTTGCA
 GAGTCCGAGCGAGCCTGGGTGTGAGTACTACGTAGTTTCAGACGTTGATGCGACGCTC
 GAGTTGCTCGCAGGCCATATTAAGCGGGATGATGTAGTGCTGGTTAAGGCTTCAAATGCT
 GATCGCCTGTGGAGGGTGCAGAAAGCACTACATGGCATGGTGCCGGGCTCAAAAACACA
 GGTGGCTCGGTCAACGACGATTCTCGTCGGAACGTGGAAGGACAG

>RXA02707-downstream
 TAGAAAACAATGCAACAGATTAT

>RXA02708-upstream
 GAGAATATCGCGAGGCAAAAGGCGAGATCATTGAAGCGCTGCCCTCGAAGAAAACGGCT
 CGGTACCAGTCTGAATACTAGGATCCTTTTGTGCGCCGG

>RXA02708
 ATGGCTCCACGCACTAAGGCGCGCTGGTGTGGTTTACCACCGATGCAGGCCAAGCAAAA
 AAGTCTGATTATTGGGCAACGAGTATTTCACTGGACGCTGTTGCGCGGGCAAGCTTTACG
 CTGAACACGAAGGACGGCTCTTGGCCGGTCACCCTGCAGGTTTTTGGTGAGCACCAGGT
 GCTAATGCACTTGCTGCTGCTGCCATTGCCATGGAAGCTGGCGTCGCCCCAGAATTGGTG
 GTTGCTGGATTGGAAGCACATTTCAGCTGCTTCCGCGCACCGCATGGATGTAAAGACCCGT
 GCCGACGGCGTGACCATCATCAACGATTCTTACAACGCGAATCCTGATTCTATGCGTGCA
 GGTATCGCGGCTCTTGGCTACACAGCTAGTGGTCTGTTCTGAAGCAACAAAGCTGGGCAGT
 GCTTGGCCAAATGGG

>RXA02708-downstream
 TGAGCTTGGCGATGACGCCTCGG

>RXA02709-upstream
 TTTTGATGACCGCAAGAAAGTTCGCGCTGCTTTGACAGAAAAGCTCAACAATAAACTTCC
 CCTTACTACGGAAGAAGGATAGGCCACAGTCATGATCACA

>RXA02709

ATGACCCTTGGGGAAATCGCTGACATCGTTGGAGGCAGGCTTACTGGCGGTGCTCAAGAA
GATACGCTTGTGAGCTCCAGCGTGGAGTTTGAATTCTCGATCCCTCACACCGGGTGGCTTG
TTTTTAGCACTTCCGGGTGCTCGTGTAGACGGCCATGATTTTGCTGCAACTGCAATTGAG
AAAGGTGCGGTTGCAGTATTGGCAGCCCGTGAGGTTGACGTACCTGCGATCGTCGTGCCT
CCAGTAAAAATCCAGGAATCCAATGCTGACATTTATGCTCATGATCCAGATGGGCATGGC
GCGGCGGTAGTGAGGCGTTGTCTCGGTTGGCTCGCCACGTGGTGGATATCTGCGTGGCT
GGCCATCAATTGAACGTTGTGGCTATTACTGGTTCTGCGGAAAGACTTCTACGAAGGAT
TTCATCGCGACGTTCTTGACCAAGATGGGCCAACTGTGGCTCCTCCGGGCTCGTTTAAC
AATGAGCTTGGTTTGGCACACACCGCGCTCCGCTGCACAACCGATACTAAGTATTTGGTG
GCTGAGATGTCCGCGCGTGGCATTGGACATATTAAGCACCTGACAGAGATTGCTCCGCCA
CGGATTGCAGCTGTGCTCAACGTCGGCCATGCGCACCTGGGTGAATTTGGATCCCGCGAG
AATATCGCGCAGGCAAAAGGCGAGATCATTGAAGCGCTGCCCTCGAAGAAAACGGCTCGG
TACCAAGTCC

>RXA02709-downstream

TGAATACTAGGATCCTTTTGTGCG

>RXA02710-upstream

GAATTTTCATAATCTGAACTTTTGTTTGAACCTTTTTCGGCATCACCCACGTGCCGCGTCC
GAATTATTAACACCTAGAAACCTGTGGAGGAGAGAAAACC

>RXA02710

ATGGCAACCACGTTGCTGGACCTCACCAAACCTATCGATGGCATCCTCAAGGGCTCTGCC
CAGGGCGTTCCCGCTCACGCAGTAGGGGAACAAGCAATCGCGGCTATTGGTCTTGACTCC
TCCAGCTTACCTACCTCGGACGCTATTTTTGCTGCAGTTCCAGGAACCCGCACTCACGGC
GCACAGTTTGCAGGTACGGATAACGCTGCGAAAGCTGTGGCCATTTTGAAGTACGCAGCT
GGACTTGAGGTGCTCAACGAAGCAGGAGAGACCCGCCAGTCATCGTTGTTGATGATGTC
CGCGCAGTACTTGGCGCAGCATCATCAAGCATTTATGGCGATCCTTCAAAAGATTTACAG
CTCATTTGGAGTCACTGGAACCTCAGGTAACCAACCAACAGCTACCTCTTGGAAAAAGGA
CTCATGGAGGCAGGCCACAAAGTTGGTTTGATCGGCACCACAGGTACACGTATTGACGGG
GAAGAAGTACCCACAAAGCTCACCCTCAGAAAGCGCCGACTCTGCAGGCATTGTTTGCT
CGAATGCGCGATCACGGTGTCACCACGTTGGTGATGGAAGTATCCAGCCATGCATTGTCA
TTGGGCAGAGTTGCGGGTTCCCACTTTGATGTAGCTGCGTTTACCAACCTGTGCGAGGAT
CACCTTGATTTCCACCCCAACATGGATGATTACTTTGACGCGAAGGCATTGTTCTTCCGC
GCAGATTCTCCACTTGTGGCTGACAAACAGGTGCTGTGCGTGGATGATTCTTGGGGTCAG
CGCATGGCCAGCGTGGCAGCGGATGTGCAAACAGTATCCACCCTTGGGCAAGAAGCAGAC
TTCAGCGCTACAGACATCAATGTGTCAGCGACTCTGGCGCCAGAGTTTTAAGATCAACGCC
CCCTCAAACCAAGTCTACAGGTCGAGCTAGCTCTTCCAGGTGCGTTCAACGTTGCTAAC
GCCACGTTGGCATTGTCCGCTGCGGCACGCGTGGGTGTTGATGGCGAAGCGTTTGCTCGA
GGCATGTCCAAGGTGCGGTTCCAGGCGTATGGAACGCATTGATGAGGGACAAGACTTC
CTTGCAAGTGGTGGATTATGCCACAAAGCCTGCTGCAGTGGCTGCTGTGTTGGATACGTTG
AGGACCCAGATTGACGGGCGCCTCGGAGTGGTTATCGGTGCTGGTGGAGACCGCGATTCC
ACCAAGCGTGGCCCCATGGGGCAGTTGTCCGCACAGCGTGTGATCTAGTTATTGTCACT
GATGACAACCCCTCGTTCAGAGGTGCCTGCCACGATTGCGCGCAGCAGTCACTGCAGGAGCA
CAGCAGGGTGCTTCAGAGTCCGAACGACCGGTGGAAGTCTAGAAATTGGTGACCGTGCA
GAAGCAATTGCGGTTTTGGTCGAGTGGGCACAGCCTGGAGATGGCATTGTAGTAGCTGGA
AAAGGCCATGAAGTTGGACAACAGTTGCTGGTGTCAACCAACATTTTGATGACCGCGAA
GAAGTTGCGGCTGCTTTGACAGAAAAGCTCAACAATAAACTTCCCCTTACTACGGAAGAA
GGA

>RXA02710-downstream

TAGGCCACAGTCATGATCACAAT

>RXA02711-upstream

AAAACCTCCAGGCGATTCCACAAGAAGCAGCAGCTCCGCCGTATCAGACCAACACTGTTT
CTTATGCTGCAACCACCGGACAAGCAGGTGGCGCAGGGCA

>RXA02711

GTGACTTTCCCCAGCAATGGCAGAAAGTCGGGGCGAGCGTGCGGGACGTGAAGATACGTCC
CGCCGTTTCGGCGTATCAGGACGAAAGCAGAAGAGCCGCTAGAGAGCGCGAACTTACGCGA
CGCAGCGGTAAAGCTAAAGGCGTAAACCAAGAAGAAGGAGTGACCTACCGGCCCTAAATCT
TCAACCCAGGGCGGGCGCACGCAAGCGACGTGTGAACATGGTTACCGCTATCGCATTTGGTC
ATCGCTGGCGTACTGATCATTTCGCCCTCGGCTGGGTCCAAGTTGTCTGGGGACCAGAACTG
TCCCTCAATGCTTCGGAACAGCGCACCCGCGTGTACGTAGATCCTGCACGTCGTGGAAGC
ATCGTGGACCGCGAAGGAAACCAGATGGCGTACACGATGCAGGCACGTTGCTGACGGTT
TCTCCGAACATCATGCGTGAGGAATTAAAGACCGGAACTGATTTGGCCTTGCGTTTGGCG
GCTGAAGAAACCGATCCGGAAAACGTGGCCAGCTATGTGACCATCGAAGAAGGCAACGCG
TATGTTTTTTCGCTCTGAAGAACAGCGCGAAACCATTCTGTCCGACAAGGTAGAAGAGCGC
ATTCAAAGCATTGCGGATCGGATCCCTGAGATCATCAAATCCCATGACCAAGATGTCACT
GGAATTTTCTCTGAGGAGATCCTGGACAAGCTCAATGCTGATAGCCAGTATGAGGTGCTC
GTCCGCAATGTTGATCCCGATGTAGCGTCAGAAATCACCGATGAGATGCCAGCGTCGCA
GCTGATCATCAAGACATCCGCCAATACCCAAACGGCGCGATTGGTGAAAACATCATCGGT
CGAATCAGCATGGACGGCGAAGGCCAGTTTCGGCTTTGAGGCTTCCAACGATTCCCTGTTG
GCAGGAAACAACGGTTCGCTCAACCCAGGACATGTCCATTTTGGGACAAGCAATACCGGGC
ACGTTGAGGGATCAAATTCAGCCATTGATGGTGCCAGCGTTGAACTCACCGTTGATCTG
GATCTGCAAACCTATGTGCAGCAGGCATTGGAGCAGGCGAAAGCTAACTCCGGTGCAGAA
AACGCCTCCGCTGTGGTTCTTGATGCCAAGACCGCTGAGGTTTTTGGCGATGGCAAACACC
GATACCATCAACCCCAACGAAGACACGGGAAAGCAGATTGAGCAGGGCAAGAGCTTTGAC
AATCCTTCTGTACCCACCCCTTCGAGCCTGGTTCTGTAGCCAAGGTGATTACTGCAGCA
GGCGTAATTCAAGAGGGCTTGACTACTCCAGATGAAGTGTTCAGGTACCGGGCAGTATT
GAAATGGCCGGTGTCTTCTGTCGGTGATGCGTGGGACCACGGTGTCTGTTCCCTACACCACT
GCAGGAATTTTTTGGTAAGTCTCGAATGTAGGCACTCTGATGCTTGCGCAGCGTCTTGGT
GAAGATAAATTTGCTGATTACCTGGAACGATTTCGGTGTGGGACAGCCAACGGGTATTGAG
CTTCCGAGCGAATCCCAAGGCCGTGCTGCCCCGACGTGAGCAGTGGTCTGGCGGTACTTTT
GCTAACCTGCCCATCGGTTCAGGGTATGTGATCACCACGTTGCAAATGGCTGGAATCTAC
CAAGCCTTGGCCAACGATGGTGAACGCATTCAACCGCGGATCATCAAGAGCGTGACTGAT
TCTGACGGAACAGTCTTAGAGCAGCCAGAACCCGATAAAATCCAGGTTGTCAGCGCTGAA
GCTGCCCGCACACGGTGGATATGTTTAGGTCTGTCAACCCAGGTTGATCCAACCTGGAGTG
CAACAAGGTACCGCTCCAGACGCCCTCCATTGAGGGTTATCAAATCTCAGGTAAAGACAGGT
ACGGCGAGGAAAGTTGACCCCAACACGGGCGCGTACTCTAACTCGCAATACTGGATTACC
TTCGCGGGTATTGCACCCGCTGATGATCCTCGATTTGTTGTAGCCATCATGCTTGATGAG
CCAGAACGCGGAGTCCACGGTGGTGGCGGCCAAACCGCAGCACCTTTGTTCAAAGACATC
GCCACCTGGTTGCTCAACCGCGACAACATCCCACTGTCTGCAGCCACCGAACCGATCATC
CTTCAAGCTCAA

>RXA02711-downstream
TAACTCAAACAGAAGTGTCTTTT

>RXA02713-upstream
TGATATGTGGCTATGACATTGTGCGCGAGTTTTTTTATCCACAAACATAAGTACAAGACA
TTGGACATCTAGCCCGCAGGAAAAGGGGGGAACACGCAC

>RXA02713
ATGGAAGATTTTTTCCTTGGATGGCAACCACGGACACGTTCCCGTAATGCGTGATCGTATG
GCGGCTTTGATCGCCGAACACGTGGAAGCATGGGAGAAAACGCTGTCATTGTTGACGCA
ACCTTTGGCGCAGGCGGGCATGCGGAGTTCTTCTGAACACGTTCCCCAAAGCGCGCCTG
ATTGGCCTTGATCGTGACCAAATGCGTTGCGGGATGCTCGCGCGCGACTTGCTCCTTTC
GGGGAGCGGTTTCATTGGCGTCCAGACGCGTTTCGACGGAATCCGCGAGGTGTTGGAATCT
GTCGAGGGCGACATCATTGATTTAGCTCGCGAGCACGGTATCGCTGGCGCTCTGTTTGAT
CTGGGTGTCTCCTCGATGCAGCTTGATCAGGTGGAGCGTGGCTTTGCCTACCGCACGGAC
GCGCCTCTGGACATGCGCATGGATGCAACTCAGGGTATTACGGCTGCAGATATCCTCAAC
ACTTATTCGCATGGTGACATCGCTCGAATCTTGAAGACTTACGGCGATGAACGCTTCGCC
GGCAAGATTGCTTCTGCGGTGCTGAAAGAACGTGAAAAAGAGCCGTTCACTACCTCTGCT
CGTTTGGTGGAGCTTCTGTACGACGCCATCCCTGCAGCGACCCGCCGAACCGGTGGACAC
CCCGCGAAACGTACTTTCCAGGCGTTGCGCGTTGAGGTGAACAACGAGCTTGATCCCTG
AAGAATGTGCTTCCCTCAAATCACTGACGCCCTCAATGTTGGGGGACGTGCAGTGTTTATG
AGCTACCAGTCTCATGAGGACAAGCTGGTGAAGAAGTTCTTCACGGATCTGACCACCTCT
AAGACCCCTCCGGGCTTGCTGTTGATCTTCTGGAACGTGACCACAGTTTAAGCAGGTT

ACTCGCGGTGCTGAAACGGCTTCGGAAGCTGAAATTGAAGAAAACCCACGTGCCGCACCT
GTGAAGGTGCGCGCAATCGAAAGAATCGGCAACAACCTCAGGAGACCTCTCA

>RXA02713-downstream
TGACCATGACAAATGGCTCCCGC

>RXA02716-upstream
AATGGATTTTGGGGTGTAACTACTTCAGTTCGGCCGATTCTGTCATAGATTTCTGCGGA
ACACCAACTCACATCACCCTTCTGGTTTGATGGGGAGC

>RXA02716
GTGTCACCGATCATTCTGTAATGAGTATCCCCGAGTTCACCACCAACACCCAGTGTTG
GTGGATATCTACATCGCAGCGATGAACATGACAAAGCAATCAGGGATACCCGGATCGAA
GTCTGGCGGAGAACTCCAGAACCCCGGATTACAGCAGTGGCAGCGCTGATGGATGAT
CAGGTCGTGGGCGTGGCCTATGGCTTCAATGGCAGCCAGATCATTGGTGGCAACACCAA
TTACGCCGGGACTCCGACAACAAGGAGGCCCGACGGAAGAGGAAATCCATATCATCCAC
AACTACTTTGAGGTTGCGGAAGTTCATGTTTCAGCCTGGCTTCCAAGGTCACGGCATTTGGC
CGAAAGCTGATGCATGAACGTGTTAAAGACAAACAAACACTTTTGCCATTTTGTCTACA
CCCGAGGTCGACGATGAGGCGAACCATGCGTTTAGCCTGTATCGCTCTCTCGGCTTCACT
GACTTGCTCAGGCAGTTTAGGTTTGACGGGGATCAACGGCCGTTTGCCGTATTGATCACC
GCCCTCCCCCTTCATGATTCC

>RXA02716-downstream
TAAGAGGGCTTAACGCACCGCGT

>RXA02722-upstream
ACTTTTAGATAAGCTCTCACAGTGCTGACTGCTTATCTGAGATGAAAATAAAAGCAAAAT
TTTTTTTAGTATCAACTCTTCGAAAGGCGAGACATCGACA

>RXA02722
ATGACCTCACCGAACAACCTACCTCGCCAAGATTAAGGTCGTCGGCGTGGGCGGCGGCGGA
GTCAACGCCGTCAACCGCATGATTGAAGAAGGCCTCAAAGGCGTGGAGTTCATCGCGGTG
AACACCGACTCGCAGGCTCTCATGTTCTCTGATGCCGACGTAAAGCTCGATATCGGACGT
GAAGCTACCCGTGGTCTTGGTGCCGGCGCGAACCAGAAAGTTGGACGTGCCTCGGCAGAG
GATCACAAGAACGAAATCGAAGAAACCATCAAGGGCGCCGACATGGTCTTCGTTACCGCC
GGCGAAGGTGGTGGCACCGGAACCTGGTGCTGCACCAAGTCGTCGGCAGGGATCGCCAAGAAG
ATGGGCGCACTGACCATTGGTGTTGTGACCAAGCCTTTCGAGTTCGAAGGCCGTGCGCGT
ACTCGCCAGGCAGAAGAAGGCATCGCAGCACTGAAGGAGGTCTGCGACACCCCTCATCGTT
ATTCCAAACGACCGCCTGCTTGAGCTGGGCGATGCGAACCTGTCCATCATGGAAGCGTTC
CGCGCAGCCGATGAAGTTCTCCACAATGGTGTTTCAGGGTATTACCAACCTGATCACCATC
CCTGGTGTGATCAACGTGGACTTCGCGGACGTTTCGCTCCGTCATGTCCGAAGCTGGTTCC
GCACTCATGGGTGTGGGCTCTGCACGTGGGGACAACCGCGTTGTCTCTGCAACCGAGCAG
GCCATCAACTCTCCACTTCTCGAAGCAACAATGGACGGCGCAACTGGCGTCCTGCTGTCC
TTTGCTGGTGGATCCGACCTGGGCCTCATGGAAGTCAACGCAGCTGCATCCATGGTCCGT
GAGCGTTCCGATGAAGATGTCAACCTCATCTTCGGTACCATCATCGACGACAACCTGGGC
GACGAAGTCCGCGTAACCGTCATCGCGACCGGTTTTGACGCAGCTCGCGCAAGCGCCGCT
GAGAACC GCCGCGCAGGCATCTCAGCTGCACCTGCAGCTGAGCCAGTCCAGCAGCAGGTC
CCAACCACCAACGCAACCCCTCCACCAGAGAAGGAAAGCATCTTCGGTGGTGCACGTGAG
GAGAACGATCCTTACCTGTCCCGCTCTGCTGGTGCACGTCATCGCATTGAGGAGACCCGC
TCCGGCGGTGGACTCTTCACCACCGGCAATGATCGCGATTACCGTCGTGATGAGCGCCGC
GAAGATCACCGTGACGAGCGCCGCGATGAGCGCCGCGATGACCGTTCTACGACCGCCGT
GATGATCGTCGTGACGATCGCCGCGATGACCGCGGAGACGACCTGGATGTACCCAGCTTC
CTCCAG

>RXA02722-downstream
TAATTAAGAAGGAGAATAGACTT

>RXA02723

GATGCGACTGCAGCAGGGCAAACATTGTGGAATTGCCCTGGGTGAAATCGGTGACCGTT
 AACCGTGCCCTGCCAAGCACCATCACCGTGGAGCTGACAGAGCGTGAGCCTGCAGTGTTT
 ATCAAGCGTGCTGATGGTGACCATGTCATTGACACCGAGGGTAAAGAAATTATCATTGGA
 ACACCCCGGTGGGAACAGTAGAAGTTTCTGGCGCGGATGAAGGAACTCAGAAGTGCTT
 CCTGCGGTTATTGCTGTAATCAACGCAATTAAAGCGCAAGATGCGCAGATGACAGAAAGT
 ATCCAGGTAGTGGAAGCTCCGGATCAATTTGATATCTTGCTGAAAATGAATGATGGCCGG
 GAAATCTACTGGGGATCCTCGGAAAACAACCACGATAAAGCGGTGGCAATGTCGACTGTT
 TTGAAGCGGGAAGGCCAACGTTGGAACATTAGCTCACCTCAATGGTGACAGTCCGC

>RXA02723-downstream
 TAAAGTGGCTGGGTAGTTCCGGT

>RXA02745
 GCCGGAATCTCCTTCGAAGTCCCCGCGGTCAAGTTTTGGCCCTCCTGGGACCTAATGGC
 GCAGGCAAAACCACCACCATTGAAATGTGCGAAGGTTTTACCGCCCCACCTCTGGCAGC
 ATCCGAGTCTTGGGCATCGATCCAGCCACAGAACCAGACCAGGTGCGCCGACGCATCGGC
 ATCATGCTTCAAGGTGGCGGTTCTTACAGCGGAATCCGCGTGTTTTGAAATGCTCAAGCTT
 GCGGCGTCTTACAACGACAACCCACACGATCCTGAATGGCTGCTTGATCTTGATAGGACTG
 CGTGAACAACGCAAAACCACCTACCGACGTCTGTGAGGTGGCCAACAGCAACGCCTTTCT
 TTGGCCTTAGCATTAAATTGGTCGCCCTGAGATTATCTTCTCGACGAACCCACCGCTGGC
 ATGGATGCGCAATCACGCAACATGGTGTGGGAGCTTGTCACGATCTCCGCCGCGACGGC
 GTCACCATCGTGCTCACCACCCACCTGATGGATGAGGCCGAAGCACTAGCTGACCACGTG
 ATCATCGTTGCCAACGGTCAAATCCTTGCCAGTGGCACACCTGATGAACTCACTGCGCAA
 CGCGATCATCTTGAAATTAATGTCTCCGTAGAGACCACGAGCCCGCTTGATCTTGATCGC
 TTGGTGGATGATCTCAGCAGCTTAAACATCGGTGATGTGAAAGCACGAGCCAACCGGCCA
 CTGCATTATTCACTTCGGACGCAACAAGCCACCCCGGATTCTTGCGGCACATCGTCCAG
 GCTGTGCGCCGCCAAAACGTCATGATTCGCTCTTTGGATACGGGACACCGCTCATTGGAA
 GATGTCTTCTGGACATCACCGGAAAAGAACTGAGGAGT

>RXA02745-downstream
 TAACGCACACCATGTCTAAACCT

>RXA02746
 GGTGTGCAGGGCATGACTGTCACCGAAACCCAAGGCTTTGGCCAGCAGAAAGGCCACACC
 GAGGTGTACCGTGGTGCTGAATACGCTGTCGATTTTGTGCCTAAGGTCAAGATTGAAGTT
 ATTATCTCCGATGCTCAGGCTGAGGAAGTCATCAACATTATCGTCGAGACCGCACGCACC
 GGCAAAGTCGGCGACGGCAAAGTGTGGATGACTAACATCGAAGAGCTGGTTTCGTGTTCTG
 ACCGGTGAGCGCGGCGAAGCAGCCCTT

>RXA02746-downstream
 TAAAACTTATGAATAATCCAGC

>RXA02813
 GGCGCGCTGACCGGCGGCTGGCTGGTTGCGGTGGACAATGCGGCACGCGCCCTGGAGGCG
 CTGGAGTTTCCGGTGTCGTATGGCGGTGCCAGCGGAAATATGACGGCGGTGCACCCGCGT
 GGCTTCGAGATTGAGCGAAGCTGGCCGAGGAGTTGGGCCTTTTTGATCCGCGAGTGGGTG
 TGGCATTCCGATCGCACGCCGATCACTGCGATCGCGTCGGCGCTGGCAACGGCCGCTGGT
 GTGGTACGCAAAATTGCTGGTGACGTGGTGTCTTACTCACAACCGAGGTGGCGAGTTG
 CGGGAGAAATCCCCGGCGGCAGCTCCGCGATGCCCCACAAAGCCAATCCGGCCGCTGCG
 ATTGCGTGCGACGGTTACGCGCGCGGGCACCTGGCCTTCTTGCAACGCTTTTCGACGCC
 CTCGACTGCCGTTTTCAGCGCGGCACCGGCAGCTGGCACGCGGAGTGGGCAACGCTGCGC
 GAGTTGGCTGCTGTCACTCACTCAGCAGTGAGCAGGGCTGCAACCAGCATCGATGGCATC
 ACCGTCAACGTTGATGTGATGGCAAGTCGCGTCAATGGACCAACCGGGCACGCCGAAGAT
 TTGGCGGAGCGGGCACTAGAAATTTATGGAAAAGGACGCAGT

>RXA02813-downstream
 TAATGGATC

>RXA02820

GCTAACTCCGCTGAGGATCTCTCCACGATCCGGAAGCTGCCGCATATTTCTTGTATGAA
AACGGTGATGCGAAGGCACCCGGCACACTTTTACAAAACCCTGACTATGCAGAAACGATT
CGTCTCATCTCTGAAGGTGGCCCCGATGCGTTCTACACGGGTGAGATTGCAGCAGACATC
GTGGAACGCGCCACCCGTGAGGTTGACGGTTTACACCATCACTGATGAGCACGGCAGAT
TTGGCTGCCTACACTCCGGAACCTCGTGAAGCTTTGTGTGCTCCCTACCGCGACAAGATT
GTTTGTGGCATGCCACCGTCATCATCGGGTGGCGTCACAGTGATGGAAACCCTGGGTATC
TTGAACAACCTTTGATCTCGCCCAATACCCACCCACTGAGGTTGGTTTGGATGGCGGATTG
CCAAATGCGGAAGCTGTTACCTGATTTTACAGAGGCTGAGCGCCTGGCTTATGCTGATCGC
GATGCTTACATCGGTGATCCTGCTTTC

>RXA02828-upstream

AGTCAGGATTTATG

>RXA02828

ATGAAACGACGTGACTTCCTGTGCGGCGCTTCTGCCGGCACCCCTCTCGCTGGGCGGNTTT
GCGCCCCAACTGCTGCTGGCCCAAGGGATGAATCAGCCAATGCGCGCGCCCATTCATGTG
GGTAAATCGGGCCTGCGCGCCCGCGACGCCGAGGCGCTTGCCACCTGGTACCAAAGCCAC
GTCGGCCTGCAAGAAATTGGCCGCGACGGCGCGACGATCCACATGGGTGCGGGCGGCACC
GTGCTGCTGGAATCACGCAGTACGACGGTATCGTGCTGGCGCCCATGCGCGTCGCGGGC
CTTTATCACAACGCGTTTCTGCTGCCGCGCGCGGATCTGGCGCGGTGGGTGCTGGAC
GCCTCGGCACGGCAACTGCGGATCGACGGCTATGCCGACCACCTTGTACGCGAGGCGATG
TACCTGACCGACCCGAAGGCAACGGCGTCGAAATCTACGCCGACCGCCCCGCCAGCGAC
TGGGTCTGGCGCAATGGTCAGGTCGAGATGGACAGCCTGCAATCGACTTCTACAGCATG
ATCGCCACGCTTGACGGC

>RXA02834

GATTCTAAAGGTAGAAGTGTTGACTTTAAATACCATTATCATCATGACTAGTAATATT
GGTTTACAAGTATTACTTGAAAATGTAAAGATGCTGGTGAAATTAGTGATGATACAGAG
AAAGCAGTTATGGACAGTCTACATGCATACCTTCAAACCTGAAATATTAAATCGTATGGAT
GACATCGTGTTATTTAAACCATTATCAGTTAATGATATGAGTATGATTGTAGATAAAATT
TTAACACAATTAAATATGAGATTATTAGATCAACATATCTCAATTGAAGTGACAGAAGAA
GCGAAAAAATGGCTAGGTGAAGAAGCGTATGAACCACAATTTGGTGCAAGACCATTAAAA
CGCTTTGTTCAACGACAAATAGAACTCCAATTGCACGTATGATGATTAAAGAAAGTCTA
CCTGAAGGTACAATAATTAAAGTAGATTTAAATGACAATAAAGAACTTGATTTTAAGGTT
GTTAAACCTACGCTCT

>RXA02834-downstream

TAATCTAGCAAAATATTAATTTG

>RXA02839

TGTGTGGTGAATGATTATGCTGACCGCAAGTTTGATGGTCATGTTAAGCGCACGGCGAAC
CGACCACTTCCCAGCGGCGCGGTAACAGAGAAAGAGGCGCGCGCTGTTTGTGCTGCTG
GTACTGATTTCTGTTTTACTGGTGCTGACGCTGAATACGATGACCATTTCTGTTGTGCTG
GCCGCGCTAGCGCTGGCGTGGGTGTACCCGTTTATGAAGCGGTATACCCATCTACCGCAA
GTGGTGCTGGGCGCGCGCTTTGGCTGGTCGATTCCAATGGCTTTTGCCGCTGTGAGTGAG
TCGGTGCCATTGAGTTGCTGGTTAATGTTTCTCGCCAATATTCTCTGGGCGGTGGCTTAC
GACACGCAGTATGCGATGGTTGACCGCGATGATGATGTGAAGATTGGCATTAAATCC

>RXA02855-upstream

ACCCCGATCCTTTGTTTTCTGGGATCACTATTAGACTCGACTCTACCGCGCTGCAGGTT
TTCTTGATACGCTGCGGACAAAACAGAAAGGTATTTTAC

>RXA02855

GTGATGGAAATTGGTGTGCAGGTTGCCTCATGGATGGACCGCCACCATGACGAGGTCATA
AAGTGGCGCAGGCATTTGCACAGCCATCCTGAGCTCTCCACATGGAATACCGCACGACT

GAGTATTTGGCCTCGGTTCTGAAAGATCACGGCATGGAACACACCTGTTCCCAGGAACC
 GGTGGATGGTGGATATCGGACCAGAAGGGGACTCCCGCCTGGCGTTTCGCGCTGATATC
 GATGCCCTTCCGCTGCTTGAATCAACCGGCTTAGAGTTCTCTTCCACAGCCACTGGCGTT
 GCGCATGCCTGCGGACATGACGTGCACACGGTGATCGCTTTGGCACTTGCTGTGCACTG
 AACACCATCGAACTGCCCATCGGCATTTCGGGTGATTTTCCAGCCGGCAGAAGAAGTCATG
 ACTGGTGGCGCAACGGACGTCAATTGCCACGGTGGCCTTGATGGTGTGGATGCGATTTAC
 GCCATCCACGTTGAACCCAAATTGAAGGTCGGTCGCGTCGGTGTACGCGCTGGCGCGATT
 ACTTCTGCCTCAGATGTGATCGAAATCAGAGTCAAGGGTGAAGGAGGACATAGCGCACGT
 CCACACCTCTCCGCTGATGTTGTTTACGCCTTGAGCAAATTGGTTCGTTGATCTTCCCGGT
 TTGCTGTCCAGGCGCGTCGATCCACGCACCGGCACCGTGCTTGTTCGGCACCATCAAC
 GCCGGCTATGCGCCCAACGCGATCCCAGATTCCGGCATCGTGTGAGGCACCTTGCGTACA
 GCCGACATCTCTACCTGGCGTGACATGCGTCCGCTTATCTCTGAGCTGGTGGAACAGGTG
 CTCGCACCCACCGGAGTCACCCATGAACTGATCTACAATCCGGGTGTTCCACCAGTGCTT
 AACGACGATGTGCGCCACCGCTTTGTTGGCAAGCGCAGCACGCGACATGGACACACAATCT
 GTTGTCCAAGCGCCGAGTCATCCGGTGGAGAAGACTTCTCGTGGTACCTTGAACACGTC
 CCAGGATCAATGGCCCGGTTGGGTGCTGGCCGGGACGACCCAAAGCAAGACCTCCAT
 CAAAGTGACCTGGTTGTGGATGAGCGAGCCATCGGAGTTGGCGTCAGGCTCTTTGGCTCC
 CTTGTGCAGCAGTACAGTAGCCGATCTGAAGCTTTCTTAAATTCC

>RXA02855-downstream
 TAATGGGGGTAGTGTGTAGGGCT

>RXA02859
 CAGTATACCGTTGATCAGCTGCTGCACGGTCTTCTTTTAGCCAGCGGTAACGATGCGGCG
 TATCTGTTGGCTCAGGAACCTGGTGGGGATCAAGCAACCCTGGAGAAAGTAAACGCGCTG
 GCCAAGGAGTTGGGCACTCAAGACACCTTCGTTGCCACTTATTCCGGTTTGATGCGCCG
 GGAATGTGACCTCCGCATACGACATGTCATTGATTTATCAGCATGCGTGGCAGAACCCG
 GTTTTCGAGTCGATTATCTCCACCGATCACATTGATTTCCCTGGTTGGGGCGACAATGAG
 GGTTTCCAAGTCTGGAACGATAACGCCTTGTTTCATGAACGATCCTGATGGCATCGCGCGC
 AAGACCGGCTACACCGACGACGCGAACCACACCTTTGTCGGCGGTCTCGATCGGGGTGGT
 CGCCGCCTCGCCGCCGTACTCTTGGATTCCACCGTCAGCGACATTCTGTCGTTGGGAACAA
 GCACGATTGCTTATCGACGCCTCCCTCCCCATCACGCCGGGGTCCGGCGTGGGCCAGCTG
 GGCTCCGGCAGCGCGAACGATGTGGCACCGGCGACCCAGAATTACCAGAACCCACCGAC
 AACCTGACTTCAGGTGAGGGTGGGTGCGAGAACACGCTGCTTAAGCTCGTGGTGCCCATC
 GGAATCATCGTGCTGTTGCTAATCGCCGCACTAGCGTGGACATTACAGATCTCCCAAGAAA
 AAGAAC

>RXA02859-downstream
 TAGGTGTTCTTCTTCACGACCTC

>RXA02895-upstream
 TAGAAAAATCTACCCAGTAAGCATTACAGGAACCATTACAGAATCTTTTCTTAGCATGTCTC
 TATCAGCGTAAACGTCCGAACATGAAAGGCTAGAAAAGCC

>RXA02895
 ATGGCTGAGCAGTTGCGTCAATTTGAAGGCAGGGTCCTCCCTAATCAATCCGAGGACTTG
 GAAGATCAGGGTTTGGGATTTGACCTGGGAACCGTTTTCTCCCGCAGGAAGGTTTGGGA
 TTCATCGGTGTTGGTGGAGCAGGTGTGGCACTTGCTGCTTGTTCACCTTCTGGTTCTTCC
 GCGGCATCGAGCACCTCAAGCGCGTCCAGCAGCGCAGCTGCAACCACAGTGCAGCAGCA
 GAGACTTTGACTGAGATGAAGTCGGAGACTGCTGGTCCGTACCCGGGCGATGGTTCGAAT
 GGTCCGGATGTGTTGGAGGTCTCCGGTGTGGAGCGCCAGGACATACCAAGTCGATTGAT
 TCTGACACCGTGGCAGAGGGCGTACCTCTGACGTTGACTATGACCATTTTGGACATGAAC
 AACAACAATCAGCCAATGGAGGGTGCTGCGGTGTACGTGTGGCACTGTGATGCGCCGGGT
 CGATATTGATGTACGACTCTGAGCTGGAAGATGAGACCTATTTACGCGGTGTGACGATT
 ACCGATAAGTATGGCCAGGTACGTTTCGATACCATTTTCCCTGGTTGTTATGCGGGCCGT
 TGGGTGCATATTCAATTTCAGAGTGTTCCCGGATCGAGACAGCATCACGGATTCCACGAAC
 AACATT

>RXN00045-upstream
 TGCGATGGCAGTTCTCACCAGAGCCTCAGCGACGAAGAACTGCTCGCATTCACGCCAT

TGTTGATGAATTCCTGTACACCGCTTAAGGCCACACCTC

>RXN00045

ATGACTGATCCCACCTTGCACCCCTTGCCCTTGATATTGGTGCCACAAAGATTGCCTACGCA
CTAGTCCCCGATAACACCCCGACGACAACATTGTCCACGGGACGCTTGGGAACAAAAGAA
GGCGACAGCCCTATCGAGCAGATCCGGCTGGTTCTTCTGGCAGGCTTAAAAGCTGCCGAG
GAACACGGTCTCAGTGTGCCCCGCATCGGCATGGGCGCTCCTGGTGTAAATTCTGGGACCA
GAGGGAACCATCGTGTACAACGGTGAAACCCTCACAGAGTGGGCAGGCACTGACCTGCGA
GGATTATCCCGAGAAGTCTCAACGTTCCATTTCGCGGCACACAATGATGTCCGCGTATGG
GCCTACGGTGAGCACCCTTAGGCACCGGCAAAGACCTCACCGGCAGGGTACTCTACGTG
TCCCTCGGCACTGGAGTGGGCGGAGCAATCATCGAAGACGGAATCATGATGAGTAGCCCC
ACTGGAAGTGGGGAGAATTTCGAGAAGTTGTGTGCTCTGACCATGCAGGATTAGCCGTT
CGGTGCGAAAATGTAGCAAGTGGCACCAGGCTTAACCAGGTACTACAACGAGGCCGCGCA
ACTCAACTTGACCTTCCCGCCATCATGGAGCGCTTCCACCAAGGTGACGGCCTGGCACAG
CAAATCATTACTGGAAATCTCCGAGGCTTTGGCCAAGCGCTAGGCGCATTAGTCAAGTG
CTGGACCTTTCCGCAGTAGTAGTTGGAGGCGGAGTGCAGGCATCGGCGCACCCGTCATG
GATCCCATCACCGCAGGGATTTTCGATCGAGTGTAAACCCCAACAAATCCGTACAAGTT
TTAAGCACGTCCCTTGGTGCCCAAGCAGCCGTCATCGCAGCAGAAAATATGCCGCGAT
AACGCCTTT

>RXN00045-downstream

TAAGCACCTAAAACGCTGTTCTC

>RXN00073-upstream

GAATCTAATGGTTGGTCTAGACAGAGCGGTACGTCTAAGTTTGCGGATAGATCAAACCGA
GTGACATGTACTTCACTAGCTCTTTAAGGATTAACCTCCCC

>RXN00073

ATGACAACAACACCGGAAGTGCCCGGCCAGCACGTGCCGCCAGGAAGCCTAAGCCCGAA
GGCCAATGGAAAATCGACGGCACCGAGCCGCTTAACCATGCCGAGGAAATTAAGCAAGAA
GAACCCGCTTTTGTGTCAAGCAGCGGGTCAATTGATATTTACTCCAAGCAGGGTTTTTCT
TCCATTGCACCGGATGACATTGCCCCACGCTTTAAGTGGTTGGGCATTTACACCCAGCGT
AAGCAGGATCTGGGCGGTGAAGTACCGGTGAGCTTCCGTGATGATGAGCTGCAGGATGAG
TACTTCATGATGCGTGTGCGTTTTGATGGCGGACTGGCTTCCCCTGAGCGCCTGCGTGCC
GTGGGTGAAATTTCTAGGGATTATGCTCGTTCCACCGCGGACTTCACCGACCGCCAGAAC
ATTCAGCTGCACTGGATTTCGTATTGAAGATGTGCCTGCGATCTGGGAGAAGCTAGAAACC
GTCGGACTGTCCACCATGCTTGGTTGCGGTGACGTTCCACGTGTTATCTTGGGCTCCCCA
GTTTCTGGCGTAGCTGCTGAAGAGCTGATCGATGCCACCCCGGCTATCGATGCGATTTCGT
GAGCGCTACCTAGACAAGGAAGAGTTCCACAACCTTCCTCGTAAGTTTAAGACTGCTATC
ACTGGCAACCAGCGCCAGGATGTTACCCACGAAATCCAGGACGTTTCCTTCGTTCCCTTCG
ATTACCCAGAAATTCGCGCCAGGATTTGAGTGCTTTGTGGGCGGTGGCCTGTCCACCAAC
CCAATGCTTGCTCAGCCACTTGGTTCTTGATTCCACTTGATGAGGTTCCAGAAGTGTGG
GCTGGCGTCGCCGGAATTTCCGCGACTACGGCTTCCGACGCTGCGTAACCGTGCTCGC
CTCAAGTTCTTGGTGGCACAGTGGGGTATTGAGAAGTTCCGTGAAGTTCTTGAGACCGAA
TACCTCGAGCGCAAGCTGATCGATGGCCCAGTTGTTACCACCAACCCTGGCTACCGTGAC
CACATTGGCATTCACCCACAAAAGGACGGCAAGTTCTACCTCGGTGTGAAGCCAACCGTT
GGACACACCACCGGTGAGCAGCTCATTGCCATTGCTGATGTTGCAGAAAAGCACGGCATC
ACCAGGATTTCGTACCACGGCGGAAAAGGAAGTCTCTTCCTCGATATTGAGAGAAAGAAC
CTTACTACCGTTGCACGCGACCTGGATGAAATCGGACTGTACTCTTCACCTTCCGAGTTC
CGCCGCGGCATCATTTCTGCACCGGCTTGGAGTTCTGCAAGCTTGCGCACGCAACCACC
AAGTCACGAGCAATTGAGCTTGTGACGAAGTGAAGAGCGCCTCGGCGATTTGGATGTT
CCCATCAAGATTGCACTGAACGGTTGCCCTAACTCTTGTGCACGCACCCAGGTTTCCGAC
ATCGGATTCAAGGGACAGACCGTCACTGATGCTGACGGCAACCGGTTGAAGGTTTCCAG
GTTACCTGGGCGGTTCCATGAACCTGGATCCAAACTTCGACGCAAGCTCAAGGGCCAC
AAGGTTATTGCCGATGAAGTGGGAGAGTACGTCACTCGCGTTGTTACCCACTTCAAGGAA
CAGCGCCACGAGGACGAGCACTTCCGCGATTGGGTCCAGCGGGCCGCTGAGGAAGATTTG
GTG

>RXN00073-downstream

TGAGTCTTCGGAGGAAACCCAAT

>RXN00136-upstream

CAGTGTTCATCATCTAGAAATCGATTAATTAAACCGGGCACCTGATTAACATTGGGCTG
CCCGGTTTCTTCTATTACAAGCGAAAGGCAACGTGCCCC

>RXN00136

ATGAGCGCAGTGCAGATTTTCAACACCGTCCACGTCAATGGATCTTCCCCCTATGATGTC
CACATTGGTTCCGGCCTCAACGAGCTCATTGTTTCAGCGCGCAGCGGAATCAGGCGCGGAG
CAGGTAGCGATTTTGCACCAGCCCAGCATGGATGACATTGCATCCGAGTTGGATGCAGCA
CTAGTCGCTGCTGGTTTGAAGGTCCTGCACCTTAATGTTCCCGATGCGGAAAACGGCAAG
TCCTTGGAAAGTAGCGGGGAGTGCCTGGGATGAATTGGGTGGCGCAGCATTTCGGCCGCGC
GATATCGTCATCGGACTTGGTGGCGGTGCTGCCACAGATCTCGCGGGATTTCGTCGCTGCT
GCATGGATGCGTGGCGTGCGCGTCATTTCAGGTTCCAACCACCTTGTGGCCATGGTGGAC
GCTGCGGTGGGCGGCAAGACTGGCATCAATACCGCCGAGGCAAGAACCTTGTGGGCGCG
TTCCACGAGCCTGACGCAGTATTTCATTGACACCGATCGCCTAGCCACCCTGCCTGACGCG
GAAATCATCGCGGGATCCGCCGAAATCATCAAACTGGTTTCATCGCCGACCCAGAAATC
CTGCGCCTTTACGAAACTGATCCCGCAGCCTGCCTGAAGAAAGAAGTCGAAGGCTCCCAC
CTACCTGAACTGATTTGGCGCTCCGTCACCGTCAAGGGCTCCGTGGTTCGGCCAAGACCTC
AAAGAATCTAGCCTGCGCGAAATCCTCAACTACGGACACACCTTTGCCACGCCGTCGAA
CTCCGGGAAAACCTCCGCTGGCGCCACGGCATGCCGTTGCAGTGGGCATGATGTTTCATC
GCCAACCTCTCCCAAGCTCGGGCTTATCGACGCGCCCTCCTCGAGCGCCACCGCTCA
ATCCTGGCGGCCATCGGTCTGCCCACTTCTACGAAGGCGGAGCCTTCGACGAGCTTTAC
GACGGTATGACCCGCGACAAGAAAACCGCGACGGCAACATCCGCTTCGTCGCACTGACC
GCCGTGGGCGAGGTTACCCGCATTGAGGGGCCCTCAAAACAAGATTACAGAGTGCTTAT
GAGGCAATCAGCCAC

>RXN00136-downstream

TAAGTGTTGAGTAATCTACTAGT

>RXN00177-upstream

CTATTCCACAGCAGTGGACGCTGAACAACCTTCAAACACAGATTAAGCAGCTATCGGATCT
ACTTCACCTCAACTCAGTTGTTCGGAGCATAGGAGCTAAAA

>RXN00177

ATGTCTTTACAGTTCGATCATGAAACCCTCGGTCAACGAGTTCTGTTTCGGTTCAGGTGAG
GCGGCGCAAAATCTCGCCGCTGAAATTAGCCGACTCGATGCCAAAAACGTCATGGTGGTT
GCCGGTGATTTTCGAGCTTCCCATGGCACGGCAAGTAGCAGCAGATATTGATGTCAAGGTG
TGGCATTCAAATGTCGTGATGCATGTGCCCATCGAAACAGCAGAAGAAGCACGCAGTGTT
GCGAAAGAAAACGACATTGATGTTGTGGTGTGTGTGGGCGGTGGATCCACAACAGGTCTA
GCTAAAGCGATTGCCATGACCACCGCATTGCCGATCATTGCCGTACCCACTACTTATGCA
GGTTCTGAAGCAACAAATGTGTGGGGATTGACCGAAGCCGCGCGCAAAACAACCTGGTGT
GATAACAAAGTGCTGCCAGTGACAGTTATCTACGATTACGCGTTAACCATGTCTTTGCCG
GTAGAAATGTTCGGTTGCTTCTGGTCTCAATGGTTTGGCTCACTGCATTGATTCTTTGTGG
GGACCGAAGGCGGATCCCATCAATGCGGCTATGGCTGCTGAGGGGAATTCGAGCACTTCT
GCTGGCCTTCCCAAGATTGTGGCAGATGCTCAGGACGTAGATGGTTCGCGATGAAGCGCTC
TACGGTGCCCTACCTGGCTGCGGTGTCTTTGCCTCTGCTGGCTCTGGTCTCCACCACAAG
ATCTGCCACGTGTTGGGTGGAACCTTTAACCTTCCACACGCGCAAACCCATGCAACAGTA
CTGCCTTATGTTCTTGCCTTCAACGCGCCATATGCGCCACAGGCAGAACAACGCGCAGCG
GCAGCTTTCGGTCTGCGACAGCACTTGAAGGATTGCAACAGCTGCGTGCCCAAGTGGGA
GCACCACAGCGACTATCCGATTACGGATTACCGCAGCAGGAATCCCAGAGGCAGTGGAA
ATCATCTTGAGAAAGTACCGGCGAATAATCCACGGACGGTCACAGAAGAAAACCTCACT
GCGCTGCTTACCACAGCGCTCAACGGCGACGATCCAGCAACTTTGAAT

>RXN00177-downstream

TAAGGAGACCAACATGACTATTT

>RXN00178-upstream

GCGAATAATCCACGGACGGTCACAGAAGAAAACCTCACTGCGCTGCTTACCACAGCGCTC
AACGGCGACGATCCAGCAACTTTGAATTAAGGAGACCAAC

>RXN00178

ATGACTATTTTCAGCACAAACAGCAAGCAGTGGGAAGAAGACCTTGTAGAGCGCGTACTCGCA
TCTTTTGATTTCGTGTGAAAAACCTCGCCTCAAACCTAGTGATGAAATCCCTGACTGTGCAT
CTCCATGATTTTCATCCGCGATGTTTCGACTCACTGAAGAAGAGTGGAACCTACGCCATTGAT
TTCCTCACCAAGGTTGGGCATATCACCGACGATAAGCGCCAAGAATTTCGTGTTGCTCTCT
GACACCTTGGGTGCATCCATGCAGACCATCGCTGTTAATAACGAAGCATATGAAGACGCT
ACCGAAGCAACAGTCTTTGGCCCCCTTCTTTGTGCATGATGCGCCACTGGTCCAAAACGGA
GATGACATTGCCTTTGGCGCAGTCGGCCAGCCGGCATGGGTGGAGGGAACGGTCAAAGAC
ACTGAAGGAAACCCCATTTCCCAATGCACGCATTGAAGTATGGGAATGCGATGAAGATGGA
CTTTATGATGTGCAATACGCCGATGAGCGCAGTGCTGGACGCGCACACCTGTATTCAGAT
GAAAACGGCGAATACCACTTCTGGGGACTAACTCCCGTGCCATATCCCATCCCACACGAT
GGTCCAGTAGGACAAATGCTCCAAGCAGTTGGTCGTTCCCCCGTTCGTTGCGCGCACCTA
CACTTCATGGTGACTGCGCCAGAGAAGCGAACCTTGGTAACCCATATCTTCGTTGAGGGC
GATCCGCGAGCTAGAGATCGGCGATTCCGTTGTTGGCGTGAAGGACTCACTGATTAAGAAA
TTCGTTGAGCAACCTGCAGGAACCGCAACTCCAGATGGTCGCGATGTGGGTGATCAAACC
TGGGCACGCACACGTTTTGATATTGTGCTCGCCCCCGGCAATGTC

>RXN00178-downstream

TAAGTAGAAGCAGCAAAAAACCA

>RXN00249

ACCGGCGTCTCCACCTCCCAGGTTGTAGTTTTGCTTGTGTCGACGCCCCGCCACGGCGTCGTC
GAGCAGACCCCGCCACCTGTCCGTATCGGCTCTGCTGGGCGTACGCACGGTGATCCTC
GCAGTCAACAAAATTGACCTTGTGATTACAGCGAAGAAGTCTTCCGCAACATTGAAAAG
GAATTGCTTGGCCTGGCATCTGCACTTGATGTACAGACACCCACGTTGTTCCAATCTCT
GCGCTCAAGGGCGACAACGTTGCAGAACCTTCCACCCACATGGATTGGTACACCGGACCA
ACCGTGCTGGAAATCCTGGAAAACGTAGAAGTTTCCACGGCCGTGCACACGACCTGGGC
TTCCGCTTCCCAATCCAGTACGTCATCCGCGAGCACGCCACCGACTACCGTGGCTACGCC
GGCACCATCAACGCTGGTTCCGTCTCCGTGGGCGATACCGTGTACCTACCTGAAGGCCGC
ACCACCCAGGTACCCACATCGATTCCGCTGACGGATCCCTCCAGACCGCATCAGTTGGA
GAAGCCGTTGTCTTGCCTGCGCCTAGCCCAGGAAATCGACCTCATCCGCGGCGAACTCATCGCT
GGCGAAGACCGCCAGAAATCCGTTGCTCCTTCAACGCCACTGTTGTTGGCTTGGCCGAT
CGCAACATCAAAACCGGTCAGCAGTCAAGGTTGCTACGGCACCGAGCTGGTCCGCGGA
CGCGTCGCAGCCATCGAACGAGTCTCGACATCGACGGCGTCAACGACAACGAAGCACCA
GAAACCTACGGCCTCAACGACATCGCACACGTGCGCATCGACGTTGCAGGCGAACTCGAA
GTTGAAGATTACGCTGCCCGCGGCGCCATCGGATCCTTCTCTCATCGACCAATCCTCC
GGCGATACCTTCGAGCTGGCTTGGTTGGCCACCGCCTACGCAATAACTGGTCGATC

>RXN00249-downstream

TAGACCAGTGCTTAGGCAAGAC

>RXN00250-upstream

ACAACACCAGACCACCCCAACCCTGAATAAACCCCTATTTTTCTAAAAAGTCACACTTTG
CCGTATAGAAATTCACTCAACCAAGAGTACTCTGTCCACC

>RXN00250

ATGGTTTTTACTCTTGCGGACTCCGTCTCCCAGGTTGCGCTAGGTCCGTCCTGGCTGGAC
CCTATGGAACCTCTTTCCGGCTCCGGCCCCGTTCCGGTAGCTTCATTCCTCCGGCGATGCTT
GCCATTGTCTTTATCGAATCAGGCCTACTTTCCCACTTCTACCAGGTGATTCTCTCCTT
TTCACCGGTGGTCTCCTAGCTAACCAAGGCTGACCCCTTTTGCACCGCTGTGGCTGGTGCTG
ATCCTCTGCCCTATCGCCGCAATTCTTGGCGATCAGGTGGGTACTGGATTGGCCACAAG
TTCCACCCCTCGCCTGGTCAATCGTCCGGATGGCAGGATTTTCAAGCAGGAATACCTCAAG
CAGACTGAGGATTTCTTTGAGAAGCATGGCCCCGTGACGATCATTTTGTGCCGTTTCGTG
CCCATCGTCCGTACTTACGCACCTCTGGTTCGAGGTATGGCTGGCATGCGTTACCGCACG
TTCATTATTTACAACATGATCGGTGGCATTCTTGTGGGGTTCCGGCGTGGTGGCTTTGGGT
GCTGCGTTGGGTGAGTTCGATTTCTGTCGCAACAATATTGATCTGATTTTCTTGCTGATC
GTGTTTCATTTCCGTGGTTCTTGGTTTGGTTCGGCATGGCCCCGAAGCTGGCTGACGGCCAC
AAGCAAGCCAACACCGAGCCACAAGAAAACCCCGCAGTCCAGACAGCCCCAGTAAAAACC
CAGGAAGCCCAGGAAGCCCCCAGAAC

>RXN00250-downstream
TAATCTTTCCGGTCCGCCAGTTC

>RXN00299-upstream
TGCCATCGGTTTGGCTATTGATTGGAACAAGAAAGGTGCCAGTCTGTTGCAAAGAAGGA
ATCCATTTCCGTCTAATCGCTAATTGCGAGGAGTCTTTGC

>RXN00299
ATGTCTATCCCACTTTCACTGATTGATTTTGGCCACCATTTTGGAGGGCGAAAGGCCTGGT
GACAGCTTCAAACGATCAGTGGCATTGGCGCAAAAAGCTGAAGGTTTAGGCTTCAAGCGC
ATTTGGTACGCAGAGCATCACAACATGGAGAGCATTTCTTCAGCTGCTCCTGCAGTGCTT
ATTTCTCACATCGGTGCGAACACCAAGACTATTCGTCTGGGTGCCGGCGGGCGTCATGCTG
CCCAACCACTCCCATATGTCATCGCTGAGCAGTTCGGCACCTTGGCGGAGTTGTACCCA
GACCGCATCGACCTCGGCCTGGGCCGTGCCCTGGCACGGACATGAATACCTTGC GCGCT
TTACGACGCGACCTCAGTCCGCCGAGAACTTCCCGTCCGACGTTGTCGAGCTGAACCTCT
TACCTCACCGGCCGTTCCCGTCTCCAGGGGTTAACGCAATTCCAGGCAAGGGCACCAAC
GTACCGCTGTACATCTTGGGTTTATCCCTCTTTGGTGCACAATTGGCAGCACAGTTGGGT
ATGCCTTATTCCTTCGCATCCCACTTCGCACCAACTCACCTTGAGCACGCGGTGCAAACC
TACCGGGATAACTACCAGCCTTCAGAGCAGCATCCTGAGCCTTATGTCATTGCGGCCGTC
AATGTCACCGCATCTGATTCCACTGAACAAGCCACGATGATTTCTACAAGGTAGCGCGT
GCACGCGTGAAGAACATGGCATTGCGTGGCCGACAAGTTACTGATGAGCAACTTGATGAA
CTCATGGATTACCAGCTGCTCGCCAAATTGTCGACATGCTTCACTACACCGCTATAGGC
ACTGGATCCGAAGTTAAAGAATACCTAGACGGTTTTGTAAAGACGGCACAGGCTGATGAA
CTGATGATCTCCCTGCAATCCCCCAACACTGAAGCAACCACGCGCAATATGGAAATCTT
CGGATGCGTGGATTAAT

>RXN00299-downstream
TAGTACCGATGGGCCGGTAGACA

>RXN00343-upstream
TTCGGTAGAATGGGTAGGTTGTCGTGCTTGAGGTGTGGTGGATAACCACCTCTACAACAC
CACCAAGCTCTGTTAGAAAAAATTGAGGAAGCAGTCTAA

>RXN00343
ATGAAACACCAATATGATGTCATCGTTGTCGGTTCCGGCGCTGGCGGATTATCAGCTGCA
GTCAGTGCAGCTTACGGCGGTAAGAAAGTCGCTGTAATTGAAAAGGCCTCAGTACTCGGT
GGAGCCACCACCTGGTCCGGCGGTTGGGCTTGGACTCCTGGAACCAGCCTTGCGCGCAAA
GACGGAGTAGTGGAATCCAAAGAAGAATTCCAAACCTACCTGCAAGCGGTAGTGGGGGAG
TACTACCAAGAAGACAACATCTCCGCCTTCTTGGACGCAGCCCCCTGAAATGGTTCGATTT
TTTGAAAAAACACCGACCTGCAGTGGACCCCCGGCGCGAAAAATCAACGACATCTACGGC
AACCTCCCCGGTGTGGCACTGGACACCGCTCCGTTGGGCCAAAACCAATTCAACGGACGC
AAAGTACCCAAGAGTGTCTTCCAAAACTGCGCCACCAGCTGTATGAAACCTCCTTCCTG
GGAATGGGCATCATGGCTGGGCTGACCTGACGAAATTCTCTCTGCTTCACAGTTCGAT
CCACGTGGTTGGGTACATGCCGCCAGGCGCGTCATCGTGCACATGTGGGACATGGTCGTG
CACAAACGCAATATGCAGATGGTCAACGGTGCAGCACTACCGCTCGACTGGCTACCTCT
GCAGACAAGCTGGGCGTTGATCTCCTGGTCAATCACTCCGCAGTGTGTTGAATTACAAA
AACGACCGCGTTACCGGCGTGAAAGTACAAACCCACAGGGCTTGGTAGATTTTGAAGCC
ACTGCCGGCGTGTGCTCGCCACTGGTGGATTCCCCAACACGTTGACCTGCGCAAGGAA
CTCTTCCACGCACCCCATCAGGTCAAGAACACTGGACCTCGCGCCAGCAGAAACCACC
GGCGACGGACTATCCATGGCTCGGGAATCGGTGCAGGTTTTGTCAACGACCTGAAATCC
CCAGCAGCATGGTGCCCTGTTTCATTGGTCCCATACTTCAACGGAAGTTCGGCACCTTC
CCCCACATCATGGACCGCGCAAAACAGGCTCCATCGGTGTTGTCTCCACAGGTAAGCGA
TTCGTCAATGAAGCCAACGGCTACTACGACTAC

>RXN00393-upstream
TCTATTCATTTCACAATAGCGTTTCACACTCCCCCATAGCCTGCCGAACGTATTTCAAGC
AATTGCGCGATCGAGTATGTGATGGGGAAAGATAGAGGTT

>RXN00393
ATGTCTCACACGGAACCCAGCCGAATTCTGTAACTTTGTCCGATTGGATTCAAGGCGCA

CGCCCGGTACCTGGGCAAATGCGTTCGCGCCTGTCATTGCCGGTTCAGGTGTCGCCGCT
 TTTTCATGATGGTTTTGTGTGGTGGGAAGGCCCTTGCTGGCGCTTGCTGTCGCCGTGGGCTTTG
 ATCATCGGTGTGAATTACGCCAATGATTACTCTGATGGCATTCTGTCGCCACCGATGAAGAC
 CGCACCGGTCTCTGCGACTCACTGGTTCTGGGTGGCTGAGCCGAAGAAAGTGAAAGCT
 GCGGCGTTTTATTTCTTTTCGGTATCGCAGGTGTCGCCGGCACCGCGCTGAGCCTGTTGAGC
 GCGTGGTGGCTGATCCTCATCGGCATCCTGTGTGTGCTGGGCGCGTGGTTCTACACCGGC
 GGTAAAAATCCTTATGGTTACCGCGGGCTCGGCGAGATTGCTGTGTTTCTCTTCGGC
 CTCGTCGCGGTTCATGGGAACGCAGTTCACCCAAACCGGTTCCGTGAGCTGGGCGGGTTTG
 GCCGCCGAGTTGGCGTGGGGTCGATGTCTGCTGGCGTGAAGTTGGCCAAACAATATTCGC
 GATATTCCAACCGATAGCAAGACCGGAAAAATTACCCTCGCGGTCCGCTGGGCGATGCG
 GGTGCTCGTAAGCTGTTTCTCGCGCTGATTTCCACGCCGTTTCATCATGTCCATCTGCCTG
 GCGTTTGTGCGCTGGCCAGCGCTGATCGCGATCATCGTTTTCCCGCTGGCACTGAAAGCC
 GCAGGGCCGATCCGCAACAACGCCACCGGCAAGGATCTCATCCCCGTATCGGCTCAACA
 GGGCGCGCCATGGCGTTGTGGGCCGTGCTCACGGGCCTGGCATTAGCGTTTAGC

>RXN00393-downstream
 TAAAACGCTTTTCGACGCTCCCC

>RXN00397-upstream
 TTTTTCGAGGTTGGGGTGGCTTTTCGGGTGGCGTGTATGTATTAAACCAAGGAGCTTGTT
 TGAGGGGAGCGCTTGTTTTCGACAGTTTTTCGGGCA

>RXN00397
 TTGAGCCTGACGGAAGGGGAGATCATTTCCCATCCAAACAAAGCTCGGCCACTGGCGTGAC
 GTGCGGGATTCCGAAGATCTGCCATTTCCAAGTAATCGCATCGCGCACCAACGTGACCATT
 ATGGAAAACACCCTGGAATGGACCAACAGCCGCCTTGAGCGTGGCGAAGAGTTCACCGAG
 CTCGACATTTATGCTCACTACTTGGAAGAGTTGGAAGATTACGCCCTCCAATTCACCTTC
 GATGTCGAGCCCTACTTCACCAACCTGCACTCCTCCAACAGAATGCTCTTCCCTGGACCT
 CCTGTGGATTTCCCGATCAACGCAGAAACCCGATGCATTTCAGCTCGACGCCGGTGTGCA
 GTAAAGAAGGACGGCGTGGTGTGGGTACCTCAGATATGGCGAGGTCCCTGCCTCGAACC
 GCCGCTGGCCAAGAAGCCTATGAGTACTTCTTCAAGGTGGTTTCGTGAAGGCATCATCGGG
 CAGCTGCGCCCGGGCGTGATCTGCGCTGACGTGCACGAAGCAACCCTTGATTACCTAAGC
 CCGCAGCTACCTCGCATGATTGACATCGGAATGCTGGGTGCCGACACCGATTTCAACACC
 ATCTACCGCAAGCGCAATGTTGGCCACCTCATGGGCAAGCAGGAATCCTTTGCCAATGAG
 CTTGCGCCTGGATACAAGCACATTCTTACCACGGCTCCTATGGTGCCGCGGAGATCCCT
 TGGCGCTACAACGGTGTAGCCATTGGTACCGAGGATCTGTGGTACATCGGCGCAGACAAG
 ACCTACATTTTGAGCCAGCGC

>RXN00397-downstream
 TAAGGAGAACCCAGTGACAGAAA

>RXN00398-upstream
 TGAGTTCGCCACCATCAGCACCGGCACCCACCAGCGCGGTGTGGTTAACCGTGAGAAGTT
 TGTCTCCCGTCTGCCTGAAGCACCTAAGGAAAATAAATC

>RXN00398
 ATGGCCAAGTTGTTTGATTCCCATTTCCATATCATCGATCCCCAGCACCCACTGATCGAA
 AACAAACGGCTACCTCCCCGAGCCTTTACCGTGGAGGATTACACTGCGCGTGTGAAGGC
 CTCGAAGTTGCTGCCGGAGCGATTGTTTCCGGTTCTTTCCAGGCTTTGACCAAGGCTAC
 CTCAAAGATGCTCTCGCAGTGCTTGGCCCAGGCTATGTCGGTGTCACTCAGATCCCCGCA
 GATACCTCTGATCAGGAGATTCTTGATCTGGACAAAGCTGGCGTGAAGGCTGTGCGTTTA
 AACTTGAAGCGCGGTGGTTCGGCAGGTCTTGACGATCTCGAGACCTTGGCACGCCGAGTC
 CACGACCTAGCCGGTTGGCACACCGAACTCTATGTGGATGCTCGCGAACTAGACGAGTTG
 GAATCAACCTTGGCCTCCCTCCCTGCTGTGATGATCACTTAGGGCTCCACCGCGAT
 GGACTTCCCGCACTTCTTCGCTTGGTAGAAAATGGCATTAAAGTCAAAGCAACCGGATTC
 GGACGGGTAGAACTAGATCCAACCTGAAGTCATCCAGGCAATCATGGCTGTCGATCCCACT
 GCTTTGATGATCGGAACCTGATCTTCCATCCACCCGCACTAAGCGACCTTTCGAAGACGCT
 GACCTAGATTTGATCGCTGAAACGGTTGGCGAAGATCATGTGACAACGTCTTCTGGAAC
 AACGCTGCAGCGTTCTACCTCGGAGACCAG

>RXN00398-downstream
TAGTTTTAAGACCCGAAATGTCT

>RXN00434-upstream
CCACGCGCCAAACCATGCAAGCCATCGTCCAACTGAGGAGAAGGTCACTGCTTCTCTGG
AATTACAGGAAGTCCCCGTCCCGACCCTGAAGCCAGGTAG

>RXN00434
GTGCTGGTGAAGGTGAAGCCTGCGGGCGTTAACCGTGCGGATCTTTTGCAGACGCAGGGA
AATTATCCTGTGCCGGCGGGGGCTTCGGAGATTCTCGGGCTGGAATGTGCGGGTGTGATC
GTGAATGCCGGCGACACTGGGCAAACAGTGGGTGAGGAAGTCGCTTGCCTTCTCACTGGC
GGTGGATATGCGCAATATGTGGCGGTTCCGGAAGGTCAGTTGATGCCAATTCCAGAGGGT
TACAGCTTTGTGGAAGCGGCCTCGATCGTGGAGGTTGCGTGCACGGTGTGGTGAATATC
GGCATGCTGGCGGGCTTGAGAAGGAGGATACTTTCCTTATTCATGGTGGCGGGGCGGT
ATCGGAACGTTTGCCATTGAGATGGGCAAGGCTCTGGGTGTGACGGTTGCGGTGACTGCC
GGTTCAACTGAAAAGTTAAAAACCTGTAAGAACTTAGGGGCCGATATCCTCATCAATTAC
AAGGAGGAAGATTTGCGCGAGGTTTGAAGAACAAGGCGGATGTCATTCTCGATATTATT
GGTGCGAAGTATTTGTACAGAATGTGAAGGCGATGGCCAAGGACGCGCACATGGTAGTC
ATCGGGATGCAGGGTGGCGTGAAAGGGGAGCTGAATTTGGGTGATCTTTTGGCCAAGCGA
GGCAGATTTCTGCCACTGCGCTGCGTGGTTCGCGATGAGGCGGATAAGGCTCGGATTGTC
AGCAGCACTGTGAAAATATTTGGCCGCTGCTGCAATCGAAGGAAATTACCCCTCACATC
GACCACACCTTGCCGCTAGCCGAAGCAGCGCCGCTTGAGAAAATTCAAGACGGCACC
ATCACCGGCAAGCTCGTGCTTGCGGTT

>RXN00434-downstream
TAGGCAAGCGATGCCAGCACCCCT

>RXN00470-upstream
TCATAACCAGGTTGGGCAAAAGGGATGAATCCCTGTTGTGGTGGGGCTCCTGAAAAGTA
CTCATAGACTCTATTGTGGAGTGTTGAGGCTGATAAGTGA

>RXN00470
ATGGGGGAAAGCCCTGAAAAGGTGGCGTTCAGGGTCTTCCCTGATGGTTTGGTGTGCGAG
GGGCATGACATGATCGAAGATATGAGTAACACACCTGCGCCTTATACCCCGCAGCCTGCG
GGGCAAGCGGTGCCTTTATATCCCACGTTTACCCGGTCAAGAGATGGTCGGGTGTTGCG
GGTGTGCGATCGGGGCTGGCAAAGCATCTTAATGTGTGCGGTGTTTTGGGTTCGTGCGCTG
CTGATTTTTGCGGCGTTGCTGAGCGGTGCGGGTCTTTTTGCGTATGCCTTGATTGGAAT
TTTACGCGCATTGAGAAAAAGGGAGTGGGGAGGCGTCGACAAGCAAGCGCTGGGTGTCG
TGGTGCCTGGTGCTGCTCGCTATCGGTGGTGCTGCGGCGTGGTGATGCTGAGCACCGGC
TTCGCGGTGGGCACGTTGGTGCCCATCGGCGTGGTGGTGTGGGCTGTTGATGGTGTGG
CTGGCGTATGACCGCGGGGTGGAATCCGGCCCGAATCTGCTGATTATTGCCACCGGCGGT
GTGTTGATGCTGGTGGCGATCGTGCTGATCGTGATGAATTGGAACACCCAGGACGGCTTC
GTCATGGCGCTGGTGGCCGTGGTGCTCACGCTGGTGGGTGTGGCTGCGCTGGGCGTTCCG
CTGTGGGTGCGGATGTGGGATCAGCTGGGCGAGGAGCGCGCGGAAAAAGCCGACGTGCT
GAGCGCGCAGATATTGCTTCCCGCTGCATGATTGCGTACTGCAGACCTTGGCGCTGATT
CAAAAGCGTGCCGACGACCCCGCCGAAGTCGCGCGCTGGCCCGCGGGCAGGAACGCGAG
CTGCGTCAATGGCTGTTTGATTCCCAAGATAAAACACCTCAAACAACCGGCACTGTCTTT
ACTGCGTTGGAGCGCGCTGCGGTGAAGTCGAGGATATTTACGCTCTGCGTATCGTGCCT
GTGACCGTGGGAACCGATGAAGCGCTGACTGAGAAAACGAGGACGCGGTGATGGCAGTC
CGCGAAGCACTCGTGAACGTGGCCAAGCATGCCGGCGTGGAAACCGCGATGTGTACGCC
GAAATTATGCTCGGCGAACTGAACATTTTCGTCCGCGACCGCGGTGCAGGATTCGACCCC
GACAACATCCCCGACGGGCACACGGGCTCGCCGAATCCGTCCAAGGCCGCTCGAACGA
GCCGGCGGAAAAGTACGCATCAAATCTGAAATCGGCGAAGGCACCGAAGTGGCAATCACC
ATGGATGTG

>RXN00470-downstream
TAGTTGGTTCGTACGCGCGTGCT

>RXN00499-upstream

TGCCAACAGGGGATATGCCACTGTGTACCCACGGCGATGATCGGTAAAATCCTCGGCGC
GCAGATATTGTTCTTGCTGCTCTAAGGTGATTTTGGGCA

>RXN00499

GTGGTGGGGGTGGTGTCCACCCCTGCGCGTAACCTGGGAAGCATGACTAAAACACTTGGT
TCCCTTCAGCTGGAAGAAATCACGCTGACCCTCCCTCTGACTGAAGATGTGGCCGATGAA
CGCACCATTGATGTGTTGCGACGCATTGCCACACGCGTCGGTGGGGAAGACCTTCCATAT
TTAGTATTCTTGCAGGGTGGGCCTGGCAATGAAGCTCCACGTCCAAGCCTTAATCCCCTC
AACCCCAATTGGTTGGGCGTGGCCTTGGAGGAATACCGCGTGGTCATGTTGGATCAACGT
GGCACC GGCCGTTCACCCACGTGGGTAATGATATTTTGGAAAAACCCACAGCAGAAGTA
GTGGAGTACTTATCCCACCTGCGCGCAGATGGCATTGTGCGAGATGCTGAAGCCCTGCGT
AAGCATTTGGGTGTGAATCAGTGGAACTTTTAGGCCAGTCCTTCGGAGGTTTCACCACC
CTGCATTACTTGTCCCGGCACGCCGATTCCCTTGGACAACGTGTTTATTACCGCGGTCTC
AGCGCTATTGATCGCCAGCAGAAGACGTGTATGCCAACTGTTACAACCGCATGCGCCGA
AACTCTGAGGAATTCTACCGTCGCTTCCCGCAATTACGGGAACTTTCCGAGGGTTGGTT
AATCGTGCTCGCGCCGGGAGATTGTGCTTCCACCGCGCAAGTTGTGTGAGAAACCAGG
CTGCGATCCCTTGGTCACTTGTGGGTAGCAATGACGGCTGGTTTGATCTGTACAACCTG
CTGGAATTAGATCCACCTCCAACGCTTTTGTCCATGACCTGGCAGGACTTTTGCCTTTC
GGCAACCGCAACCCAAATTTATTACGTGCTCCATGAGTCCTCTTACGCCGACGGTGTGGTG
ACAAATTGGGCAGCAGAGCGTGTGCTTCCAGAGGATTTCCGCGAGGATCCAACACTGCTC
ACCGGTGAGCACGTGTTCCAGGAGTGGACAGACACCGTGCCGTCGCTCAAGCCGTGGAAG
GACGTGCCCCTGGCATTGGCTCAGCAGGAATGGCCCAAGCTTTATGATGCGAAGGCTATG
GAAAACCTCACAGGCCAAGGGCGCTGCGCAGTGTATGCCAATGACGTTTTCGTCCCATG
GATTACTCTCTGGAAACCGCACAAACACCTGCCCGGTGTGCAGCTGTTTATCACCAGCCAG
CATGAACACAATGGACTTCGTGCCAGCTCAGGCGCAGTACTGAAGCACCTTTTCGATCTG
GCCACGGCCGAGAGGTACGC

>RXN00499-downstream

TGATTCCTCGTGTTAGTACTAGC

>RXN00513-upstream

CACAGCGTACGCACGAGCTTGAGGATCTTTCAGAACTCAACATTGAATTGGATGCCGATA
TTTTGGCCAAGGCTCCTGTGATTCCGGAAGGACTGTTCTG

>RXN00513

ATGGCGGGTTTGTTCCTCTGCTGTTGCACCAACGGAGCGTCGAAAAGCATTACGCGCG
GCACTGGCTGCGCCTGAAATTGCCCGCATGCCTGGTGCATTCTCCCCGCTGGCGGGCGCGC
GCAATCCAGGAAGCCGGATTTGAAGGCGGTACGTCTCGGGCGCCGTGTTGGCGGCTGAC
CTTGCAATTGCCGGATATCGGCTTGACCACATTGACCGAAGTGGCGCACCGCTCCCGGCAG
ATCGCACGCGTGACAGACTTGCCCGTGTGGTTCGACGCCGACACCGGCTTCGGCGAACCC
ATGTCCGCAGCGCGCACCGTCTCCGAACTCGAAGATGCAGGTGTGCGGGGCTGCCACCTG
GAAGATCAAGTCAACCCCAAACGCTGTGGGCACCTGGACGGAAGAAGTAGTGGGCACG
GACATCATGGTTCTGTCGATCGCCGAGCTGTCAACGAGCGTCGCGATGAGCAATTCTGTC
ATCTGCGCTCGCACCGACGCCGCGGGAGTGGAAGGCATCGACTCCGCGATCGAGCGCGCC
AAAGCTTACGCGGATGCCGGCGCCGACATGATCTTACCGAAGCGCTGTACAGCCCTGCA
GATTTTGAAAAATTCCGCGCGGGCCGTGACATTCCGCTGCTGGCCAACATGACGGAATTT
GGCAAAACCGAACTTCTGCCC GCGCAGCTTCTGGAAGACATCGGATACAACGCAGTGATC
TACCCAGTGACCCGTGCTGCGCATTGCGATGGGACAGGTGGAACAAGCTCTCGGCGACATT
GCAAAACACCGGAATCCAAACCGACTGGGTGACCGGATGCAACACCGATCCAGGCTGTAT
GAGCTGCTGCGCTACAACGAGTACAACGCTTTGACCAGCAAGTATTACCTATTCCGCT
GACAGCTACAAGCCCATCTTC

>RXN00513-downstream

TAACCCGCCTATATATAAGGAGT

>RXN00531-upstream

GCCTGCGGGAATCGGCACCTTTCAGGATAGGACAACCTAATATAAATAAGCTTAGGCTAAG
GGCCGGTGACAATTTATCAAGCAGTGCTATAATAGGGGTC

>RXN00531

ATGGCAAACATACACAGTCCCTGGAATCAACGAGAATGACGCAAAGCAGCTTATTGATGGA
CTGCAGGAGCGTCTCACCGACTACAACGATCTTCACCTCATCTTGAAGCACGTGCACTGG
AACGTCACTGGCCCCAACTTCATTGCTGTTACGAAATGCTCGACCCACAGGTTGACCTT
GTTCTGGCTATGCTGACGAAGTTGCAGAGCGCATTTTCACCCTCGGAGGCGCACCAGTT
GGAACCCCAAGAAGGCCACGTTGCTGACCGCACCCCACTGCAATATGAGCGCAATGCCGGA
AATGTCCAAGCACACCTCACTGACCTCAATCGCGTGTACACCCAAGTCTGACCGGAGTT
CGCGAGTCCATGGCATCAGCCGGCCAGTGGATCCAGTAACTGAAGACATCTACATCAGC
CAGGCCGCGGAGCTGGAGAAATTCCAGTGGTTCATCCGCGCACACATTGTTGATGTAGAC
GGAACATCCAAGAG

>RXN00531-downstream

TAAAACGTCGAAAAGCGTTAAGG

>RXN00549-upstream

AAAGAGCAGCGGCAAAAGGCGCTTAAAGAGCGACTCTAAGGGCTACGCTGTAAGAAACAC
CATCATTGGTGCCATTGTTGCTGTCATTTTGATTCCAGTA

>RXN00549

ATGGTCTTTCATGGGTGCTTACATCATGGTTGATGTTCCAGAACCGGAAGAGTTGGTTTCA
CCCCAGGTTTCGAGATTTACGCATCTGACGGTGAGACTGAATTGGCACGCATCGTTCCT
CCAGAAGGCAACCGCCAGATGGTGACGATCGATCAGGTGCCTGACACTGTGAAAAATGCG
GTGGTGGCTGCGGAAGACCGAGAGTTTTACACAAACCCCGGTTTTTCCATTACTGGCTAT
GCCCCGAGCAGCACTTGGCGTAATCACTGGTGATTCTTCAGCGGGTGGTGGTTCCACCATT
ACTCAGCAGTATGTGAAGAAGGCTGTGGTTGGTGATGAGCGTTCGCTGATCCGTAAGGCT
AAGGAATTGGTCTATTCCGCGAAGATGGCCAATGAGTGGTCTAAGGACGAGGTCCTTGAG
GCTTATCTCAACACTGTGTACTTCGGTCGAAATGCCTATGGTGTGCAGGCTGCAGCTCAT
GCATTCTTTGATAAGCCAGTAGAAGAGCTCACGGCTGCTGAGGGCGCAGTGCTGGCGGCC
AGTATTCACTGCCAAGCCAGTTGGATCCTTGGACAAATCCAGTTGAGGCGGAAACGCGT
TGGAACATATGTCACTGGACGGCCTGGTGGAATTTGGCGCTATCTCGGCAGAGGAGCGCGCA
GTTGCTACCTACCCTGAAACCACTGACCCTGCGTCCAACAGTGCGTACACCGAAGCCACC
GGCACTAATGGTTTGATTAAGAACCAAGTGATGGCGGAGTTGTCTGAGCTTGGTATCACT
GAGGATGATGTGCAAACCTGTGGTTTGAGGTCAACCACCACCATGATCCAAAGACTCAG
GAAGGTGCCGTTGAAGCGGTACAAAACCAAGTTGGATCTTCTGTCTGAGAACAACCGTGCA
GCGGTAGTCTCCATTGATCCTTCTAATGGTGCGGTTTCGTGCTTATTACGGCGGCGAGAAT
GCGACTGGTTGGGACTTTGCAAACGCTCCGCTTCAGACCGGTTCTACATTCAAGATCTTT
GGTCTGGCAGCAGCACTTCAGCAAGGTAATCCACTGTCTCAGCCATACAGCTCTGCGCCG
GTGACTGTGGGTGATGCTCAAATCGGAAACGTCGGTGGCAGCGGTTGTGGTTCCCTGTTCC
ATCGAGCAGGCGTTGTTGCATTCTTACAACACCAAGCTTCATTTCGTTTGAGCAGGATCTG
GAAAATGGTTTCAGAGTACTGCGGACATGGCGCATGCTTTGGGTATCGCGAAGTCTTTG
CCAATATCCCTGAGACACTGACTGAAAACGGAGAGACCCCTTATGAGGGCATCATCTTG
GGTCAGTATGAGTCCCGCCCACTTGATATGGCTTCTGCGATGGCAACTATCGCTAATGAA
GGTGTCTGGCACCGCCCGCACTTCGTGTCCAAGGTGGAGACTGTCAGCGGTGAGGTTCTC
TACGAGTTCGAGGATGGCGACGGCGAGCGTCGTGTTTCTGAAAAGGTTGCACTGAATCTG
CTCAAGGCCATGGGGCCAATCGCTGCATACTCCAACGGAAACGCTCTGGCTGATGGCCAG
GTTTCTGCATCCAAGACTGGTACCACTCAGCTTGGTGATACCGGTGCAAACAAGGATGCG
TGGATGTTGGGTGCGGCACCTCAGCTAGCTACTGCGGTGTGGGTGCGAAGTGTCT

>RXN00549-downstream

TGATAAACTGCATTGTATAACA

>RXN00550-upstream

AAGGATGCGTGATGTTGGGTGCGGCACCTCAGCTAGCTACTGCGGTGTGGGTGCGAACT
GCTTGATAAACTGCATTGTATAAACCTGGGGTGGCAGT

>RXN00550

ATGTATGGTTCTAACTCCCCTGCCACGATCTGGAAGCAGACCATGGATAACGCCCTCGAG
AACTCCCCTCTCGAACTTGGGATATCGCTCCAGCATTTGGGGTACGGTAACCCACCAGTT

CCGGAATATGTGTGGACTCCAAGTCCAAACATCGCGACTAATGATCCAGAAGGAGCAACC
 GAGGAAGCTCCAGTGGAGGATCCAAATGCAGTAATCGATACCCCTGCTGTAGATCCCCT
 GCACCTGCAGAGGAGACCGGTAACGGTCAGGTAGAAATCCTGCCGGGGCTGACTATCCCC
 GGAGATCTCTTAGGGATCGGC

>RXN00550-downstream
 TAAATCCGGTCGTAGCCTAAAC

>RXN00621-upstream
 AAATGAATCCGGTTTTTCAGTTTTCGGGGTGCAAATCAGAATGTGCCAATGGCGAACAC
 ACGAGCGTGCAGAAGATGTGCGTGAATAAGATCGGGGGCT

>RXN00621
 ATGTCTGAACGCCTAAACGCTCCGCAAGCACCAATCCATCCCATCACCCGAACCCACCAC
 GGTATTGATTTTCGTAGACAACCTATGAATGGCTGAGGGATAAAGAATCCCAAGAAACCTTG
 GACTACCTGGAGGCGGAGAATGCGTTACCAAGCAGGAGACTGAACAGCTAGCCACACTG
 CGGGACAACATCTATGAAGAGATTAAGTCACGCGTTAAAGAAACCGACATGTCCATCCCA
 GTGCGTGCCGAAAGCACTGGTATTACTCTCGCACTGAAGAAGGCAAGAGCTACGGCTAT
 TCCTGCCGCAATTCAGTGACTGAAGGGTCGGATGCATGGACCCCTCCTGTTATCCCTGAG
 GGTGAGCCAGCGCAGGGTGAAACCATCATCATGGATGCCAACGAGTTGGCAGAAGGCCAC
 GAATTCTTCTCCATGGGTGCATCATCTGTCAACACCTCTGGCCGCTACCTTGCGTATTCC
 ACCGATGTCACGGGCGAAGAGCGCTTTACGTTGCGCATCAAGGATCTAGAACTGGCGAG
 CTGCTTCTTGATAACCTGACTGGCATTCTTCTACGGTGCTACTTGGGTGGGGGAGGAGTAC
 CTCTTTTACCAGCGCTTGATGATGCGTGCGTCCAGATACTGTGTGGCGCCACAAGGTG
 GGTACCCCGGTTGAAGAAGACGTGTTGGTGTACCACGAGCCTGATGAACGTTATTCCACC
 TGGGTGGGCACCACTCGTTTCAGAAAAAGTTCATCCTTTTTGGTTGCGCCTCCAAGATCAC
 CTC

>RXN00621-downstream
 TGAAGTACGCGTGCTTCCTTTTCG

>RXN00622-upstream
 TTTTACCAGCGCTTGATGATGCGTGCGCTCCAGATACTGTGTGGCGCCACAAGGTGGGT
 ACCCCGGTTGAAGAAGACGTGTTGGTGTACCACGAGCCTG

>RXN00622
 ATGAACGTTATTCCACCTGGGTGGGCACCACTCGTTTCAGAAAAAGTTCATCCTTTTTTGGT
 TGCGCCTCCAAGATCACCTCTGAAGTACGCGTGCTTCCTTTTCGACCAGCCAGAGGGCACC
 CCTGAGGTGCTGATTCCGCGCGCGGAGGGGTGTGGAATACGACGTCGATCATGCAGTCGTA
 GACGGCTCCGATATTTGGTTGGTCACACACAACGCCGAGGGCCCGAACTTTTCGGTGGGG
 TGGGCTGGCGTCGACAAGCTCAATTCTTTGGACGCGCTGGCGCCACTCGTCGCGCACAAG
 GATGACGTGCGCATTGAGGGTGTGATACCTACCGCGATTTTCATCATCCTGGGCTACAGG
 TCCGGCGCGATCGGCCAGGTGCGGATCATGAAGCTTATCGACGGAACCTTCGGCGATTTC
 CAACAGCTGGAATTTGACGAGGAAATCTACACCGTCGCATCGGGCGGAAACCCAGAATGG
 GACGCCCCCGTCATTTCGCCTTTCTTACGGATCATTACCAACCCGCGCAGCTGTTTAAC
 TACTGGATTGAATCCGGCGAACGCACGCTGCTGAAGCAGCAGGAAGTGCTCGGCGGATAC
 AAGCCGTCAGACTATGTGGCCTCCCGATTGTGGGTCACTGCGAAAGATGGCGCGCAGATT
 CCAGTGCTTGGTGCACCGCACCGACCTGGATGTATCCAAGCCCAACCCACGTTGCTC
 TACGGCTATGGTTTCTACGAATCATCCATTGATCCAGGCTTCTCTATCGCGCGTTTGTC
 CTGATGGATCGTGGCATGATTTTTGCGATTGCCACGTTCTGTGGCGGTGGCGAAATGGGT
 CGTGGCTGGTACGACAACGGCAAAACCAACGAAAGAAAAACACCTTCACCGACTTCATT
 GATGTTGCCGACGCCCTCATCGAGCAGAAGATTTCTGCCCCTGAAATGCTGGTTGCAGAA
 GCGGGCTCAGCTGGTGGCATGCTCATGGGCGCCATTGCCAACATGGCCGGTGACCGCTTC
 AAGGCGATCGAAGCCAACGTGCCATTCTGTCGATCCGCTGACCTCTATGCTCATGCCGAA
 CTGCCACTGACGGTTATCGAATGGGATGAGTGGGGCGATCCACTCCACGATAAGGACGCT
 TATGAATACATGGCGTCGTATGCCCCATATGAAAACATCGAGGCAAGAACTACCCCAAT
 ATCTTGGCCGTAACATCGCTCAACGACACCCGAGTGTTGTACGTCGAACCAGCCAAATGG
 GTAGCGCAGCTTCGGGCGACTGCAACCGGTGGAGAATTCCTTCTGAAAACGAAATGGTT
 GCCGGACACGGCGGTGTGTACGACGCTACGAAAAGTGGCGTGAGACTGCATTTGAGTAC
 GGCTGGTTGATCAACCAAGCAACCGGTGTGACCGAA

>RXN00622-downstream
TAAAACTTGTTCGACTAGCGAAC

>RXN00639-upstream
AGTGTGTGTATCGAGTTCAGCCGATCACAAAGATTTTTCCGCTAGGCAGTGATCCGACTC
GCACCCCTACTTCACCCCCAAAGTCTCTAGGAGTATGAC

>RXN00639
ATGACTTCAGCTGAACAGATCGTTGATCCAACAGCCCACGATTCGGGCAACAAGGCAACT
GACAAAGTTCAAGGCAAACCGCGTTTCCTCCGATACCTCCAAGGAACGCGCAAACCGGATC
TACGTAGATCTGCTCGCGGCGATCGCCCAGGTTGCTCACAAGCACGAAGTCACCTACGAA
GAGTACGCAGTGTCTCAAGCAGTGGATGATCGACGTTGGAGAATACGGCGAGTGGCCACTG
TGGTTGGACGTTTTTCGTTGAGCATGAGATCGAAGAGATCAACTACAACCGCCACGACTAC
ACCGGAACCAAGGGTTCATCGAAGGCCCTTATTACGTAGAGAAGTCTCCGAAGCTCCCT
TGGGATGCTGAAATGCCAATGCGTGACAAGGACCGCGCATGCACCCCACTGATCTTCGAG
GGGCAGGTTACTGACCTCGACGGCAACGGTCTTGATGGAGCAGAAGTTGAGCTCTGGCAC
GCAGATGAGGACGGATACTACTCCAGTTTCGCGCCTGGAATCCCAGAGTGGAACCTGCGT
GGCACCATCGTTACCGATGAGGAAGGCCGCTACAAGATCAAGACCCTGCAGCCTGCGCCT
TACCAGATCCCTCATGATGGCCCAACCGGTTGGTTCATTGAGTCTTACGGTGGGCACCCA
TGGCGCCAGCCACCTCCACTTGCGCGTTTCCACCCGGGCTACCGCACCATCACCACC
CAGCTTTACTTCGAGGGTGGCGAGTGGGTGCGAAACGACGTTGCAACCGCTGTGAAGCCA
GAACCTGGTCCTGCACCCTGAGACTGGCGAGGATGGTAACCACGTTCACTACCCATTTCGTC
CTGGATAAGGAAGAC

>RXN00639-downstream
TAGTTTTTCTACCTAGCTAGCAT

>RXN00641-upstream
TGCGGAATTGCTCGCAAATGTCACACACCGCTTCAAAGCAAAAACGAAAACGACATCGCG
GTGGCAATACCAACTTCTTTTCACTCTCTTGGAGGTTAC

>RXN00641
ATGTCCACACCAGTTTCAAATTTGGCAAGCGTTCAGAAAACCTCTGGACCATGCGCTTGAG
GACCGCCCTGAAGAGGGAATCGTCCGCGTCAACCGCAACATCTTCACTGACCCTGAGATC
TTCGAGCTGGAGATGCGCCACATCTTCAAGGCATCTGGATGGACATGGCTCACGAGTCC
CAGATCCCTAACGGTGGAGACTACTTCACCACCTACATTGGCTGCCAGCGGATCATGATC
ACCCGTTCCAAGGAAGGCACACTCAACGGCCTGATCAACGCGTGTTCTCACCGTGGCGCC
ATGCTCTGCCGTGGCAAGAGTGACAACCGCAGCTCCTTGACCTGCCCATTCACGGCTGG
CATTCTGCAACGGCGGCGCACTGCTCAAGGTCAAGGGCGAAAAAGAGGCGCTACCCA
GAGAATTTCCGCACCGACGGCTCCCACGATGTGCGTTCCTAAGTTAGAGTCTTAC
CGTGGCTTCTCTTCGGCTCCCTCAACGATGATGTCGTTTCTTTGGAAGAGCACCTCGGC
GACACCCGTACCGTCATTGACATGCTGGTTGACCAATCCCCAGAAGGCCTCGAAGTACTG
CGCGGATCCTCCACCTACACCTACGACGGCAACTGGAAGCTCCAGACCGAAAACGGTGCA
GACGGCTACCACGTTTCTCCACCCACTGGAACCTACGCTGCAACCACCTCCCGCCGTGGC
ACTGGTGAATCCGCGAACGAAACCAAGGCAATGGACGCTGGTACCTGGGGCAAGCAGGGT
GGCGGATACTTCTCCTACCCTTACGGCCACATGCTGCTGTGGATGTGGTGGGGCAACCCA
GAAGACCGCCCACTGTTCGAGCGCCGACGAGTTCAAGAAGGAATTCGGCGAAGAAAAG
GGCGAGTTCATGGTTGGTGCTTCCCGCAATCTGTGCCTCTACCCCAATGTTTACCTGATG
GATCAGTTCTCCTCACAGATCCGCCACATCCGCCCAATCTCAGTTGATCAGACCGAAGTC
ACCATCTACTGCATCGCACCTAAGGGCGAGTCCGCGGAAGCACGTGCAAACCGCATCCGC
CAGTACGAAGACTTCTCAACGCAACGGGCATGGCAACCCCAAGATGACCTGGAGGAATTC
CGCTCCTGCCAGAAGACCTACCAGGCATCTGCCTTCCCATGGAATGACATGACCCGCGGT
TTGGGCCACCAGGTACAGGGACCAAACGAGGTTGCCAAGGGCCTAGGCATGAACGAAGTT
CTTTCTCCGGAGCACGCACCGAAGATGAAGGCCTTACCCCAATCCAGCACGGCTTCTGG
CATGAACCTCATGCAGGAGGCTGTGAATAAGCAGAGCATCAAGGAAAAGGAATTGGCTGAC
GATACCGCTTCTTCCCTTGCCACCGTAGCTGCAGCCAAAATCCGTGAGGAAGCAAAGGCA
GCCGCGAAGTCCGACGCTGGAGAGCCTCGCCGCGTCTGTCGACCCGCGGT

>RXN00641-downstream

TAGTCGTCGAAAAGCAAAAATC

>RXN00658-upstream

CATTGACACCCACAGGTTTACCAGCATCACGGAAAGTTTGGATGGATTTTTACTCCGGCC
ACAACGCTCGGCTGGAAGCTCAGCCACGTGCTTTCTGGTC

>RXN00658

GTGCGCCACGACGAGCACTACCCAGCTGCGGCAAACCTCATTGCTTTCGATAAGGGATGG
TCCACCCTCATCGCCCCTCAGCTGGAAGATCCAGAGGCGGAGGAGTTCACCGCCGGATTC
CTCACCGAATACCAGGACAATCTGATCACTGCGGGCATGGAGCACCAGGCGCTCGCGAGC
GGCTTCCCGGTGGGGCGTCGCTTCAAGTCCGATATTGCTTTACGACGCTGCGATGCGGTG
ACCACCCACATCGGCCACGAACACTCCGCCGATGGTCACTGGAGGATCTACGTATTCGCT
GGCCAAGCCACCCACAAAGATTCCGAGTCTGCACTGAACAAGTGGGCGCAGTGGATGGAG
GAAAGCGAAGACTCACCCTCAACCGCTTCAACCCAGAAGCCGGCGACCGCAACGCACTC
TTCGATATCAAGGCTACCTACCAGCAGCATTACCACTCCTTCGACCTGTTTCGATGCGCCA
GAGGTCTTCTTCCACGAGTTGGACCATAACAAGCTGCAAAACCTCGAAAACGTTTGACC
GCACTGGATTCCCAAGACATCTTTGAGTCCCGTGGCATCAGTCGCGATGGCGCAATTGTT
GTCGTTCCGCGACAGTACGTGCGCAGCAGTCTCCCACTCGAAGACACCGCAGCACTG
GCTGAGTTCTTCAATGGCAATCTGCTTGAGCCA

>RXN00658-downstream

TAAACCCATAATTCTAGGAACGA

>RXN00663-upstream

CTGAACGATTGGTGACCGGCTCATGAAACTTGACGAGTCCCCGGTATTCGCCAGCGGTG
ACTACTACCGTGGGCGACAAGCCCACTTAGAGGAGGACTT

>RXN00663

GTGACAACCACCTATCCAGATTTCCCTTGGAATTTCTTCGCTCCAAACAGATACGGAGCAC
TGGGAAATGGAAGGAGGTGCGCAGGAAGTCTCTGTTACTTATGTTTTGGACACGTCAGTG
TTGCTGTCTGATCCGTTGTCTGTGACACGGTTTCGCGGAGCAGATGTAGTTCTGCCAATT
GTTGTAATTACGGAATTAGAAGCCAAGCGTCATCACCCGGACCTTGGCTTTTTTGCTCGC
CAAGCGCTTCGGATGCTGGATGAGCTGCGTGAGATCCATGGGGATTTGTCCAAGCCACTG
CCAATTGGCGATGAAGGCGGACACATCCATGTTGAGCTGAATCACCAAAACACGGGGTCC
TTGCCCCGTGGGATTCCGCCTTGGTGACAATGACACCCGCATCCTTGCAGTGGCCAAGAAT
CTGCAGGAAGAGGGCCACAATGTGGTTCTGGTGTGCAAGGACCTGCCGATGCGGATTAAG
GCGTCGGCAAGCGGAATCGCCGCACAGGAATACCGCGCTGCCCTGGCGCGCGACCGTGGT
TACACCGGCATGACCCACGCCAATATCACCGATGACCAGCTCAGCGAGCTCTACGACACC
GGCGAGGTGCGCATTGAGGAGCTCGAAAAGCTGCCCGTCAACCACGGCTTCACCCCTCAAA
TCCACAGCGGTTTCGGCGCTTGGTTCGTATGAATTCCGACAAGATCATCGAGCTTGTCCCC
GGCGACCAGCAGGTATTCGGTATCAGCGGGCGTAGCGCTGAGCAGCGGGTTGCCATTGAT
TTGCTTAACGACGACGCCGTCGGCATCGTATCCATCGGCGGCCCCGCGGGTACAGGTAAG
AGCGCACTCGCACTGTGTGCCGGCCTGGAAGCTGTGATGGAGCGTCGCATTACGCGCAAG
ATTATCGTGTTCGCCCCACTCTTTGCCGTTGGCGGACAGGAACCTGGCTACCTGCCTGGC
GACCAAGAAGAAAAAATGGGGCCTTGGGCGCAAGCGGTTTTTGACACCCCTAAGCTCCATG
GTCAGCCAAAACATCATCGATGAAGCCCTCTCCCGCGGCCTCATCGAAGTTCTCCCACTT
ACTCACATCCGCGGACGCTCACTCCACGATGCTTTCGTATCGTCGACGAGGCCCAATCC
CTAGAACGCAACGTGTTGCTCACCATGCTGTCTCGCATCGGCCAGAATTCCCGAGTAGTT
CTCACCCATGACGTAGCGCAGCGCACAACCTGCGCGTTGGTCGCTACGACGGCATCGTC
TCTGTGGTGGAAGCACTCAAGGATCACGAAGTGTGTTGGCCACATCACGTTGCAGCGTTCC
GAACGCTCCCGAATCGCTGAGTTGGTCACCCAAGTTTTGGATGCGCCGTCTCTG

>RXN00663-downstream

TAGTCGCGCAGTCTGTGGCGATT

>RXN00665-upstream

ACCAAACTTCTGTGCGTGACACGCGCCACCTTATACTCCCAAGCAACACAGAACAC
TCGGGATCTCAAAGTTTCGAGAAACACAGAAAGGCGAGCA

>RXN00665

ATGAGCAGCTCAACACTTCTCCTGGCTTCAGGACAAGTCACGGCATTAGCCGCTGACTAC
ACGCTCAGCCACACCCCTCAGATGGCATCCTGGTAGTCCTTGGCTTCGCCATGATCCTC
ACCTTCATGACCCTGATCATGCTGGGTCGACTCACCCCAATGGTGGCCATGCTGTTGGTC
CCCACCATCTTCGGTCTCATCGCCGGCGCAGGACTCGGCCTTGGTGACATGGCGCTTGAC
GCCATCAAGGACATGGCGCCTACCGCGGCACTCCTGATGTTGCGGATTATGTTCTTCGGA
ATCATGATCGACGTGCGACTCTTCGACCCCTGATCCGCGTGATCACCCGCGTTCTTCAC
GATGACCCCGCAAAGGTGCTCATCGGCACCGCAGTACTTGCAGGTGTTGTCTCCCTCGAC
GGCGACGGCTCCACCACCTTCATCATTACCACCTTCGCGGATGCTGCCCATCTACCTGCG
CCTTGGCATGAGCCCTGTGGT

>RXN00675-upstream

GTGGAAGTACTCACCTCAAGGTGGCCGGAACCGCATGCATTGTGCGGTGCCGGCCACCTT
TGGTTTTAACAGTTTAATTTGAAGAAAGAGACGTGGAAGC

>RXN00675

ATGGGTTTTCCGTTCCAAGAAGAAGGTTATTGCGGCAAAGACCGCCGCTGAGCTGGACGCG
ATGCAGGCGGCGGGTGAGATCGTCGGCAAGGCTTTGCAGGCTGTGCGCGCTGAGGCTAAA
GCTGGCATGAGCACGTGGGATCTGGATCAGATCGCGGAGCAGGTTATCCGCGATGCTGGC
GCCGTTCTACATTCTGGGTTACCAGGGTTTTCCGGCATCAGTGTGCGCTTCGGTCAAT
GAGGTGATTGTTACGGCATTCCATCCAAGGAGACCATTCTGGAGGAAGGCGATCTGGTG
TCCATCGACTGCGGCGCAACCTTTGATGGTTGGGTGCGCGATTCCGCGTGGAGCTTCGGC
ATCGGCGAGCTGGACGAGGACGTCCAGGGTCTCAACTTGGCTACCGAGTGGGTCTCATG
GAAGGCATGAAGGCCATGGTTCCAGGCAACCGTTTGACCGATGTCTCCACGCTCTCGAG
GTCGCAACCCGCAAGGCTGAGTCCAAGTTCGGCGTCGCGCTCGGCATCGTCGATGGCTAC
GGCGGACACGGCATTGGCCGCCACATGCACGAGGAGCCATACTTGGCTAATGAGGGCAAG
GCCGGCAAGGGCCCTGTGATTACAGGAGGGTCCGTGCTCGCCATTGAGCCTATGCTCACC
CTCGGCACCGAAGATTCCGCGAGTGCTGGAAGATGATTGGACTGTGCTGACTCTCGACGGT
TCATGGGCATCACACTGGGAGCACACCGTTGCAGCCACCAAGGGCGGCCCCGCGCATCCTC
ACGCCGCGTTAT

>RXN00675-downstream

TAAATGATGCTTTTCGACGCAT

>RXN00689-upstream

ACAGGGAAATCCTCCCAGAATTAATCACCGAAGCTGCACACCAGATGGCTACTGCAGACC
TCAATCGTGCAAAGGCCCTGTTAAGAACGGATGCGATCCG

>RXN00689

ATGAATGCTGCAACCAGGCGTGCTTCTCTGCAACTCCCCTATACCCATGTCGATGATTTT
TACATCAACGGTTCTTGGGTTAAAGCAGAAGGAACACAACGCAACCCCGTAGTTGATCCT
GCGGTGCGTCAAGAATGGGGATCTGTTCCAGAAGCAACCGCATCTGAATTGGACTCTGCG
GTGGGAGCTGCACGTACAGCGCTAAAGTCGTGGAGTGCACTTACAGGTGCGGAACGAACA
GGCTACCTCCTGAAAATCGCGACGGAAATTGAATCCCGTTCTGAAGCTCTAGCACTTACT
AATACCCGCGAAAATGGTTCCCCCATTTCCGAGACCCGTGGAGCTGCGTCCAATGCAGCA
GGAATTTTCCGTTACTTTGCCACTCTCGCGCCTTGGTTAGACGGCGAAGACATCCGCCCA
TTTCTTGCCGCTAGCGCCGAATCCATCGTGGATAAAGATCCCATCGGTGTCTGCGCACTC
ATCGCCCCATGGAATTTCCCGATCAACCTTGTAGTCATCAAACCTGGCACCAGCACTTCTT
GCCGGCTGTACCGTCATCATCAAACCAGCCTCCCCACCCCACTGTGCGATCCGTTTCATC
ATCGAAGCCATCGAAGCCGCGGAGTGCCAGCAGGCGTAGTCAACCTACTCACCGGTTCA
GGGCGTTTTCGGTGATGCCCTTGTCCGCCACCCCGGAGTAGACAAGGTAGCGTTTACCGGA
TCAACGCCTGTTGGAAAGAAGATCGCTGCCGCTGCGGAGAACTACTCCGACCAGTGACT
TTAGAGCTAGGCGGAAAATCTTCCGCGATTATCCTTCTGATGCAGACATGTCAGTACTC
TCGACGCGGTTGATTTCGATCCTGTATGCGCAACACTGGACAAACCTGCTACATCAGTACC
CGGATTATTGCCCTAGCTCACGCTATGCGGAAGTCGTACAAACAGTGGAAGCACTATC
GCTGCAGGTAGACAAGGTGACCCCTATGATGAAGAAACGGTTTTTGGGCCAGTTGCCAGC
GCCTCTCAGTACTCAACCGTCATGTCTTACATTGACTCCGCACGAGAGGAAGGTGCACGA
GTGGTTGCAGGTGGAACCCGGTCAATCAGCCTTTCTGAAGGTTTAGAATCAGGCGAGTTT

ATCCAACCAACCGTGTGTTGCCGATGTCACCCCGACATGCGGATATCACGCGAAGAAATC
TTCGGCCCTGTTATTTCCATCCTAAAGTACGACGATACAAACGGTGTTCGGAAGCAATC
GCACTAGCCAACAACACGAAATTCGGTCTCGGTGGCTTGGTATTTGGTGCGGATGAGGAA
CAAGCACTAGAAGTCGCCCCGTCAAGTGGATTCTGGTTCCGTAGGCATCAACTTCTTCGGT
TCCAACCATTCGCCCCCATTTGGAGGACGCCACGAATCCGGTATGGGAGTGGAATACGGC
ATCGAAGGCCTCAGTGCTTACCTGACATACAAGAGTATTACCGAACCATT

>RXN00689-downstream
TAGTTACTGAAAGTTCTCAGCTA

>RXN00778-upstream
AGGTCTTAGGTTTTTAAGTCGTGAGCAATCCGGAGGGAACTAGCCCGCCTACAGGATCT
GCTCAGACGATGTCTTCACTTAAACCGGAAAGGCTTCCCC

>RXN00778
GTGAACCTCACTCTTAAGCGCTCCATCGCCCTTGTGGGCGCAGTTACTGCAGGCTCCTTC
GCTCTTGTAGCTTGCTCCGACTCCAATGAGTCTGATTCCACCTCCTCATCTGCAGCTTCC
ACCGGTTCTTCCGATGCTGCATCCATTGAGGGCCTTTCCGGTGTACCGGTCAGCTCGTT
GCTGAAGGTGCATCTTCCAGCAGTCCGCAATGGACTACTTTGGTATCCGTTACTCCGAG
GCTGTCAGCGGTGCATCTCTGGCTTACACCCCTTACGGTTCCGGTTCGGGCCGACCAAC
TTCGCTGCAGGCCAGGTTGCTTTCGGTGGCTCCGACTCCGCAATGAAGGACGACCAGGCT
GCAGAAGCAGAAGCAGCTTGCAACGGCAACGAAGCATGGCACCTGCCATTTCGTTATCGGC
CCAGTTGCAGTTGCTTACAACCTGCCTGGCGTTGACACCTGAACCTGGACACCAACATC
ATCGCTCAGATCTTCAAGGCGAGATCACCAAGTGAACGACGAAGCAATCGCTTCCCAG
AACGAGGGCACCGACCTCCCAGACCAGGACATCTCCGTTCTGTACCGTTCCGAAGAGTCC
GGTACCTCCGACAACCTCCAGAAGTTCCTCGGAGCTTCCACCGACATCTGGGAGACCGAA
GGCCAGCAGTTCCCAACCGAGGTTGGCTCCGGTGCAGGGCTCCAACGGTGTAGCTTCT
GAGGCTTCCAACATCGAGGGTGCAATCACCTACGTTGAAGCTGGTTTCGCTAACCAGTCC
GGCCTGGGCGTTGCAAAACATCGACTTCGGTTCCGGCCCGAGTTGAACTCAACGCTGAGTCC
GTTGGCGTTGCACTTGGTGCATCTCGACTTCCTGACTGAGGGCCACAACATGGTTGTTGAC
ACCGACGCTATGTTGCAATGAACGAAGCGGTGCTTACCCACTGATCCTCACCACCTAC
GAAATCGTCTGCTCCGACGGCTACGACGAGACCAACCGCGACCGAGGTCAAGGACTTCCTG
ACCGTTGCATCGGATCCCAGGATGACCAGCTCGAGGCTCTCGGCTACATCCCAGTTACC
GGCGAGCACTACGATCGCCTCGTTGCAGCAGTTGAAGCAATTACG

>RXN00778-downstream
TAATAAACCGCTGCCGTAGCTTC

>RXN00787-upstream
CCAGCCCGCCCAATAAATAATTTCTCTCTTCTAATTGCGGAGCCTCATATATTGAGTACG
GTATTTTGAAACACCTTCAGCCCCCTTTTTAGGAGCCACA

>RXN00787
GTGTCTCAGCCTCTCAGCAAGCGTCTCAGCATACGAAAAGCACTCGCCAGCGCCTTCATA
GTTGCGCTGGCGTTTTTCGCTTTCCCCAGTAGCCAAAGCCCAAGCCAATGAACTCCGACG
ATGATCGTGTTGGACAATTCAGGCTCCATGACAGCTCAAGATGCCGGCGGACAGACCCGT
ATCGATGCAGCAAAACAAGCCTCCACTCAGTTAATTAATGACATCTCCGACCGCACCGAC
GTAGGTCTGACCTACTACGGCGGAAACACCGGCGAAACAGAAGCAGACGTTGAGATGGGA
TGCCAAGACGTCAACATCCTTGGCGGCCCTCCCGAGGAAATGCAGACACCTTAATTGAC
ACGATCAACAGCCTGCAGCCTCGAGGCTTCACCCCATCGGCAAGCACTCACCGATACC
GCCGCCGAGCTCCCCGAAGGCGGAAACATTGTGTTGGTCTCCGATGGCATCGCCAACTGC
ACCCACCGGATGTCTGCGAAGTAGCCCAAGAACTGGCTCAAAGTGAATCAACCTGGTT
ATCAACACCATCGGACTAAATGTTGATCCAGCAGCGCGAAGAACTGGAGTGCATCGCT
GGAGTCGGTGGTGGCACTTACGCGGATGCTTCCGACGCGCAGAGCCTTACCGATGCGCTG
ACACGAGCCGCCAGTAGGCAATACAACCTTACACCTCCGATGTGACAAAAATTGATGGG
GCATCGGAACAAAGCGCAGCCGTAGAAATTGATGAGGATACAGAACTATTCCTCACCAGC
CTGCCACAAGAATCCCGCTTTTGAAAAATCCCTGTAGAGCCAGGTGAAACCATCTCAGTT
TCTGCCAACACAGTTACCGACCAACAGTACTACCATGGGGCAAGGCGGAATCAAGCTT
GAAGCCCAACTCCATACCTGAAGAGGCTCCACAATAACGGCCTGCGTGGTGGTGCATCGG
GTCTCATTTGATAATTTCAAGCCCGCCTTGGTGTACGCGGAATCCAAACGCGTCCGTT

GCATCAAAAGAAGTGGGCACCAACAACCTGTGACACCGATGCCATCTACCTCGAAAATTTCT
 AGAAGCGGAGATTACCTCAACGGGCAGGACATTCACCGGAAATCACCATCGAGCGCTTC
 GGAAAAGTAGATGAATCAACAATCGGAAATGTCACAGAGGAACATAGCTCCGTCGATCTT
 ACCGAGGCTGCAGCATCAGAGGCACACCCTGTCACACCTGGCCAGTGGTTACATCGGCC
 GCTGATCTAGATCCCGCAGGTGAGAAAGTCTCCTCCATCATCGTTCCAGGAGAAACCCAC
 TTCTATGCGCTGCCTGTGCGACTACGGCCAAGAAGTGCAGCGCAGCTGTAGAAACAACCTTTT
 GACCAAATCGACAGTTCCGCGCTTGGCAGCATCTTTATATCCAAGCGTTCAGCCCAAAC
 CGGGCAGAGATAGAGCTACCAATAGAGATACGTCATATGCGGACGACAACGGGCTCAA
 ACTTTTGGATTCTTACCCCCAGTGAGTGCAGCAAATTTGTTTCGAGAAAAGTTCTCAAGGC
 ATATCGCTAAGGAGCCCATGGCAAGGTGGCACCCAATACCTCGCAGTGACATACCTACCA
 AGTGGTCAAGATGAAGATGTATCCGCAACTGATCAGCTGCCACATTGGAATATGAACTC
 GTGGCAGAAGCGTTTGGAGACCCTGTTGACCCACCGGTTTTTCGCTTCATTGACGGGAGCA
 ACCCCAAGCACCTCCACCCCCCATCAGATGTTGCGGAAGATGAACAAATCTCCGAGGCA
 ACAGAAGAAGACTCAAGCAGTTTCCCCATCGTGTGGATTGGGCTGGGTGTCATTGGCTTA
 GGCATAATCATTGGTTTGATCTTTGCGCTGAGAAGAAAGAAT

>RXN00787-downstream
 TAAGCCCTAAAGATAAAGAGTC

>RXN00818-upstream
 TTCCCAATGCGCAACCCAGCACGTCACCTCAATCTCATTGGTAACTTTAGTTTCTTTCT
 CAGTCTTGGAAGTTGCCAAAAGCGCTAAACTATGCGGT

>RXN00818
 GTGAAGCACCCAGATCCCGCCCCAAAAGTAGAGGGCACCACTGCGACCACCCCCACAAAG
 GTGGCTGCTTTTTTCGATCTGGACAAGACCATCATCGCCATGAGTTCCACCTACGCCTAC
 GGCCGTGAGTTCATGAACAGCGGGCTCATCTCCCCTGTGCAAGCCCTGCAATTAAGCCTC
 GCGCAAGCAACGTACATGTTGCGCGGCCACACAGTGAACAAATGGACAACACCCGCGAC
 CAACTCACCGCCATGATCCGCGGCTGGGAAGTCCAACAGGTGCGCTCGATCGCGGAGGAA
 ACCATGCATTGCGGTGGTCACTCCCACCATCTACGCAGAGGCCCCGGAAGTATCGAGCAC
 CACCAGGAGCTCGGCCACGATGTCATCATCATTTCCGCTCTGTGAAAGAACTGGTGGAA
 CCCATCGCCCGCGAACTGGGTGTACATAAAACTGTCACCACCGTGCTTGAAGCCCACGAC
 GGTATGTACACCGGTGAAGTGCTGTTTTACTGCAAAGGCGACGCTAAAGCGCAGTCCATC
 CTGGATCTCGCCGAGGCGAACAATTACGACCTTTCTTAAGCTTCGCCTACTCCGATTCC
 TTCACGGACCTGCCCATGTTGGAAGCTGTGCGCAACCCGCGCCGTCAACCCCGACCGC
 GCGCTGAAGAAAATCGCCCTTGAACAGGGGTGGAAAATCTTAAGCTTCAAAAACCCTGAA
 CCGCTGTTCCAAATGCCAGCACCCGCGACGTCGGCATCGGAACCGGAGTTGTTGCCGGC
 ATCGCAGCTGTTACAGCAGGTAGTATCTGGTGGATGAAACGCGCACGGCGCGGATCGGCC

>RXN00818-downstream
 TGAGCCTCACCTGACAGCAGTTA

>RXN00820-upstream
 ACTTCCACCACCCCAAACCATCGTTTCTTTTGAAGACGCACCAACCTCACCGGCCAGGA
 CCTGGGCTTTTCGCAGTGGCGCACTGTCAACCCAGGAGATG

>RXN00820
 GTGAACACCTTGGCGGACGCAACTGATGATCAGCAGTGGATTACACTGATCCTGAGCGC
 GCCAAGGACGGTCTTTTTGGTGGCGCAATTGCCACGGTTTCTCACCTTGTCATGATC
 ATTCCGTTCGGGGCGAGCTTCTCGATGTACCGGCGTGACCACCAAGGTGAAGTATGGC
 CTGGATAAGGTGCGTTTACCTCTCCCGTCAAGGTGCGTTCCCGCATCCGCATGGGCGCT
 GTGGTCCGTGAGATCTCTGAGGTGAAGGGCAATGGCCTGCACCTGGTCGCCGATGGCACT
 ATTGAGATCGAAGGGCAGGAGCGCCGCGCTCGTAGCTACCTTCCTCACCCGCTTCTAC
 GCT

>RXN00820-downstream
 TAAAAGCTTGCTTCTCGACGCAA

>RXN00866-upstream

GCATCAACGTAGGAGATCCTCGACTTCCAATTATGGCTCCAAATGAGCAGGAACTTGAGG
CTCTCCGAGAAGACATGAAAAAGCTGGAGTTCTATAAAT

>RXN00866

ATGAATGATTCCCGAAATCGCGGCCGGAAGGTTACCCGCAAGGCGGGCCACCAGAAAGCT
GGTCAGGAAAACCATCTGGATACCCCTGTCTTTCAGGCACCAGATGCTTCTCTAACCCAG
AGCGCTGTAAAAGCTGAGACCGCCGGAACGACAATCGGGATGCTGCGCAAGGTGCTCAA
GGATCCCAAGATTCTCAGGGTTCCAGAACGCTCAAGGTTCCAGAACCGCGAGTCCGGA
AACAACAACCGCAACCGTTCCAACAACAACCGTCGCGGTGGTCTGGACGTCGTGGATCC
GGAAACGCCAATGAGGGCGCGAACAACAACAGCGGTAACCAGAACCGTCAGGGCGGAAAC
CGTGGCAACCGCGGTGGCGGACGCCGAAACGTTGTTAAGTCGATGCAGGGTGCGGATCTG
ACCCAGCGCCTGCCAGAGCCACCAAAGGCACCGGCAACGGTCTGCGTATTTACGCACTT
GGTGGCATTTCCGAAATCGGTGCGAACATGACCGTGTTTGAGTACAACAACCGTCTGCTC
ATCGTGGACTGTGGTGCTCTTCCCATCTTCAGGTGAGCCAGGCGTTGACCTGATTCTT
CCTGACTTCGGCCCAATTGAGGATCACCTGCACCGCGTCGATGCATTGGTGGTTACTCAC
GGACACGAAGACCACATTGGTGCTATTCCTGGCTGCTGAAGCTGCGCAACGATATCCCA
ATCTTGGCATCCCGTTTACCTTGGCTCTGATTGCAGCTAAGTGTAAGGAACACCGTCAG
CGTCCGAAGCTGATCGAGGTCAACGAGCAGTCCAATGAGGACCGCGGACCGTTCAACATT
CGCTTCTGGGCTGTTAACCCTCCATCCAGACTGCCTTGGTCTTGCTATCAAGACTCCT
GCTGGTTTGGTCATCCACACCGGTGACATCAAGCTGGATCAGACTCCTCCTGATGGACGC
CCAAC

>RXN00877-upstream

AAATAATGGGGCTCGCCGGTGATGGTTCGCCGCGGCATTCAACGGTGACGGAAGAGGTG
GCAGACATGATGAAAACCTTAGCAACTAGTATCGGTCACT

>RXN00877

ATGACTGTTGAACACCTGCTCAAGCCCAGCACCTTGCCCTACCAGCTGCCCCGATTTGCGCA
GCGATCAAGGTGGCTGATTTCCCGCCCGCCTTCGAACTCGCATTAGCTGAACACGATGCT
GAAATTACAGCGATCGCTACCAATGAGGACGCTCCTACCTGGGAGAACACCATTGAGGCC
CTGGAACGCGCAGGCCTGTCCCTCAACCGCGTCGCCGCCGTATTCTTCAACTTGCAGGGC
ACCGATTCTCCCTGAAATGGATGAAATCGCAGCCACTATCGCGCCGAAACTCTCCGCG
CATTGCGATGCGATTTTCCACAATGCTGCGCTTTTTCGCGCGCATTGAGGCCGTAGAAGCA
CCGGCCGACGAGGAATCGCAACGCCTGTTGTCCACACCAAGCGCGCTTTTCGACGTCGC
GGTGCAGCACTCAACGCCGACGGCAAGGCCGACTGAGCACCATCAACCAGCGCCTATCG
GCACTGTCCGAACAGTTTCGGCCGCAACCTGCTTCAGGACACCCGCGATCTGGCGGTCAAC
TTTGAAGAATCTGAACTTGCCGGTTTTCAGCAAGCCCGCATATCCGCCGCCGCTGACTAC
GCAGCAGCAGTTGGCACCGAAGGCTACGTGGTTCCACTGGAAGTGGCCACCGTGACGTCA
GAGCAGGCAAGTATTAACCGAATCCGCCTCGCGTGCAAGCTTTATGAAGCCTCCAGAAG
CGTGGCGCCAGCCTGAACAAGGACGTGCTGCTCGAAACCGTGCGTCTGCGTGCTGAACGC
GCCACACTTTTAGGCTACGACACCCACGCCGATTACGTGATCGAAGAAGAAACCGCCGAT
GACGTGCGAGCCGTGCGCGCCTTGCTTTATGATCTCGCCCCAGCCGCTCTGCCAATGCG
AAAGCCGAATACAACTCTCCGCAAGAAGAAGCAGAAGAACACGGCCAAAAAGTCGGCGCA
GCTGACTGGAGCTTCTGGGAAGCCAAAGTCCGCGCCCGCGACTACGCCCTGGACGAAACC
GAACTGCGCAACTACTTCCCATTGAACCAAGTACTCCGTGACGGCGTCTTCTTCGCTGCT
AACCGCCTCTACGGAATCACCGTGGAACACGCCCTGACCTGCGCGGTACGCCGAGGGC
GTGGACGTCTGGGAAGTCCCTCGATTCTGACGGCTCCGGCATCGGCCTGATCCTTACCGAC
TACTACGGCCGACCATCCAAGCGGGCGGCGCTTGATGTCCAGCTTTGTCGACCAATCC
GAGCTGCTAGGCACCAAGCCAGTCGTGGTCAACGTTATGGGTATTACCAAACCAACCACC
GGCGAAGCACTACTCAGCCTCGATGAAGTAACCACCATCTTCCACGAATTCGGCCACGGC
CTGCACGGCTTGCTGTCCAAGGTGCGCTACCCAAGCTTCTCCGGAACCTCCGTGCCCCGC
GACTACGTAGAATTCCCCTCCAGATCAACGAAAACCTGGGCATTGACCCCTGCAGTAGTC
CGCAACTACGCCCGCCACGTGGACACCGGCGACATCATTCCAGACTCCCTGCTTGAGGCA
GTGGAAGCATGTGGCATTTTCAGACAGAGTGGTGAACATGTGAGTACTTGTCCCCATCTA
TTATCGACCTGCCCTGTCTCTCCCTGTCCACAGCGGATGCCGCAC

>RXN00877-downstream

TAGTCAATGACATTGACCAATTA

>RXN00905-upstream

CGCTGCCCCCTCTATGCTGCTCCTAGTTACCCCTGCACAAATAGCGGTTTTTCTCACGCAT
TCTGCATCGAGTCGGGTCGACGTATATAAGGTGGAAGGC

>RXN00905

ATGACCCCAATTCGAAAACGCGCAAGTACTTAAAGAGAACATCGAAAACCAACGCGAGCAG
ATCTTTACCCAGTTGAAAGAAATTGTGTCTTTCAACTCCGTGCACAGCGATCCAAACCTA
CTGGAGGACTACGCCGGCGCGAAAGAATGGGTAAAAGAAACACTGACCAACGCAGGTCTC
ACCGTCAGCGAATTCGCTGCCGAAGATGGAACCACTTCATCGGCACCCGCAAGGGC
TCCGAAGGTGCACCAAAGGTACTGCTGTACAGCCACTTCGACGTTGTCCCATCCGGCCCT
TTGGATCTCTGGGACACCAATCCTTTTGAACCTCACCAGCGCGGACGCTGGCCACGGCACC
CGCTGGTACGGCCGCGGCGCGCTGACTGCAAGGGCAACCTGGTCATGCACCTCGCAGCA
CTGCGCGCCGTCAAGCCAGCGGCGACACCACTCAACCTCACCTACGTGGTCGAGGGC
TCCGAGGAAATGGGAGGCGGAGCGCTCAGCGCGCTCATCAAGGACAAGCCTGAGCTTTTC
GACGCAGATGTCATCTTGATTGCAGACAGCGGAAACGCTTCCGTGGGCACCCCAACCTTG
ACCACTACCCTGCGCGGTGGCGGACAGGTACCCGTCACCGTGGACACCCCTGAAGGCGCT
GTTCACTCCGGCCAGAAGGTGGCGCTGCCCCAGATGCTGTTGCTGCTCTCGTGCGCGTT
CTGGATACTTTGCGCGATGAACACGGACGCACCGTTATCGACGGCTGTCAACACCACCGC
AACTGGAAGGGCGAGCCTTA

>RXN00905-downstream

TGATCCAGAGACTTTCCGCAGCG

>RXN00948-upstream

ACACCCTCCAAATGATCTCGTAAAACAGTATTGAATTTAGGTACGACTCTAATCGTACCT
TGCCCTCAAGCCAAGCTAGTTGTACGATCAAACCTCGTTGT

>RXN00948

ATGGCAAACGTCGTACTAGTCGATCGAATGGAGCCTTTGGTGTCCAAGCTGTTTACCCCA
ATTCAAATCCGCGACATCACCATCCCCAACCGCGTGTGGATGTCACCGATGTGCACCTAC
TCTGCAGCCACCGGTTCCAGGTCTTCCACCGATTTTACCAGGCTCATTACGCAGCTCGC
GCAGCAGGTGGTGTCCGATTAGTCATGGTTGAAGCAACTGGAGTGAACCCCGTAGCTCCC
ATCTCCCCAGTCGACCTTGGACTTTGGAGCCATGACCAAATTGAACATTCTCCCGAGTG
ACAGCAGCTATTGCGCGCCGTTGGGCGAGTACCGGCCGTTCAATTAGCCCATGCTGGCCGC
AAGGCATCCACCGATGCTCCGTGGAATGGTGGCGGATATGTTGGACCAGAAACCAATGGA
TGGGAGACTGTGCGCCCCAGCCCTCTGGCATTCCCAGGTTTGCCTGCTCCGCGCGAGCTG
ACGGTTTTCAGAAATCCAAGAGGTTGTGCAGCAGTTCGCTGGCGCCGCCGTTTCGTGCCGAT
CAGGCTGGTTTTGATGTGCTGGAATTCACGCAGCACACGGCTACCTTTTGCATAACTTC
CTTTCTCCGATCTCCAACAAGCGCACCGATTTCATACGGCGGATCTTTAGAAAACCGCGCT
CGCATCGTGCTCGAAGTCATTGATGCAATCCGCGCAGTGTGGCCAGAGGAAAAGCCTGTA
TTCATGCGCATTTCCACCACCGACTGGGTGGAGGAAAACCCACAGGATGATCGCGAGTCC
TGGACGCTGAGCCAAAGCAGGCAGCTGGCTTTGTGGGCATCCGAGCACGGAGTTGATTTG
ATCGATGCCTCTTCTGGTGGCCTCGACATCGTCCCCATTCCGCATGACCGCGATTACCAA
ACCGCGAAGGCCGCGAGATCTTACGCAAGTACCGGAGTGACAGTCGCTGCTGTGGGGCGC
ATTGATGACGCCCCAACTGCGCACAATTTGGTTGATTCTGGCGATGTCAATGCAGTTTTC
CTCGGCCGTCCACTGCTCAAGGATCCTTCCTGGGCAAACCAAGCAGCCCTCGCACTAGGT
GCGGAACCCAGGTATGTTACCAATACGACTACGTACTT

>RXN00948-downstream

TAAAGGAGAGTTGACATGAAGGT

>RXN00982-upstream

GAAAACAAACGTCTTGAAGCCGTAATGCCCCGTTGACAATAAAAAGGGTAGTAGCAGT
TCTTGCCGCTCGACTGCGCTTAGCCCTTTTTTGGTATCA

>RXN00982

ATGCCCCACTGCAGCAGCGCAAGAAAACATCCGCTGGGAAGAATGCCACCTCAGGTAGAT
ATTGCCCTCCGCTCAATGTGGCAGCATCGACGTGCCATGCACTATTCTGATCCCTCACTT
GGCGATATCAGCGTGGGCTTTGTCAAGGTCCCTGCCAAGGCGAAAAGCACGGCACCATC
TTCGGTAACTCCGGTGGCCCTGGTGGCGATGCCTATAGCTTCTTCGGCAGCCAATCCATG

AACTGGCCAGAAGCCATGTACCAAAACTACGACCTCGTTGCAGTGCAGCCTCGCGGAATG
 GTCGGCTCCACACCGGTTAACTGCGACAACATCGCACCAGGATACGATTTCTCTCGCTG
 CTCACCCGCGAAGGCGCTTTTCGTTAAAGAATCCTGCGAGATCGGCACCCCGGCTACACC
 TCCAGCCTGACCACCGACAACACCGCCAACGACTGGGAGCGCGTCCGCCAAGCACTTGGC
 GATGACAAGATCTCCATCTTCGGACTGTCTTACGGAACCTACCTCGGATCGGTCTACGCC
 ACCCGCTACCCACAGCACACCGACAAGGTTGTCTCGATTCCGCAATGGCGCCAGCCTG
 GCATGGAACGGCATCATGGCCTCCCAAGAACAGGGCTACAAAACTCCCTCAACGACTTC
 TTCACCTGGGTTGCAGAAAACAACGACACGTATGGCCTCGGCACTACCCCACTAGCCGTG
 TACCAAACTGGTCAAACAAGATCGTCGCCGAAACCGGAACCAACCCAACCGTTGCTCCA
 CCACCAGCACAAAGTTGGCGATGTCCCACCAGCATTCGCATGGGCGCGCCAAGCAGGCGCA
 GACATGATGACCGCCACCAACCCAACCTCCGTGCAACTCCAGGGCCTTGCCACCCAGCTC
 CTAACCCCTGGATCCAACCAGTCACTGAGCCCTCTGCTCAACGTACCCGCGCCTACATT
 CCACAGCCATCAACCTGGCCCATGTCTCGCAGGCGCCATCTCAGGGCAAACACCCATCCCT
 GACGTAACGTGACACGGCGCAGACCCATACGTCAATCGAAAGCATCAACGCCAGCGTCAAC
 ATGCAGCGCATGGTTCATGTGCAACGAAAACACCGTCGCACAGACCCAGTAGCAATGGCA
 CGCATGGCCTGGACAAGCATGGTCACCGGCGACGTCTTTGACATTTACTCCGTTAAATTC
 AGTCCGGACAAGCCTGTCCGGCATCACCCCAACAAGCGGCGGCCAGCCAACCGACGGA
 TCTCAACTAGCAGTCCAACCACTACTCTCCAGGGAACAGCGACCCACAAACCCCATAC
 TGGACCCACAACGAGCTTGCCGACGCCATGAACGCCACAGTGGTCACCGTCAACGGACCA
 GGACACGGCCAATCCATCGGCGGCACCAACCAAGCAATCAACGACATTGTTGTGGACTAC
 CTCGCGACCGGACACACCGACGCCACCTGGGTGCAAGGCAACACACCCACCCCAATTACG
 GCTGGC

>RXN00982-downstream
 TAATTGCTTTCCACTTAGTAGAT

>RXN00983-upstream
 GTGAGAAAACAGTGGCTCAAATATCGACATCTTCTACTCACAGTTCAACCTGTCTGGCT
 GGAGGCCGGCTGCATTGGTGTGACGCGCGATGAAACGTCC

>RXN00983
 GTGACTGCAGGTGAAACCACCACTATGAATGTCAGTTGACCAATCCTTTTCGACAACGCA
 ATTTTTGACCGAGCAGTCTCCCTTGAACGTCCCGAAGGATGGCAAGCTGAGGATGTTCTG
 GTGTCGATCCCATCTGGAGAATCTGTCACAATCCCAGTCCAGGTACAGCACCGCTGGTA
 GCCGACAACGGTGAACCTCCAGTGGAGGTGTCCATTCTTGATGGAGCAGACCGCTACACG
 GGTCTCTCAATCTCACTGTTTCAGGGTGGGCAAGAACCTGCACCAACTTCAGTGAAGGTG
 AGCATTCCAAATCTCAAGGACACTTATGTAGCAGGGGAGAAGATCAGCATTAACTTTGCG
 GTCAACAACCCGTTTGACGTTACGGTTAATTCGGTGCCAAGCCTGGGGGAAGGCGAGAAC
 TGGATGCCTGCAAACCTACGCGGATTTGATCCAGAGCAGGGTACTCCCAACTGTCTGTAC
 AAGAATTTAGGCGCGAATAAGAGCTATGACTGCACCACAACCTACCTATGAAGTCAGCGAT
 TTGGATGTAGAACGCGGATACGTGGATATTCCAACGGTATGGACGTTTACTAACTCCGCA
 GGCGAAACGGTATGGTCCAAAAACGTTGATGTGCCTCGAGTTGAACTCAATGGAACACAG
 GATGCTGTCACTGATGCAATCGTAACGGTTGATCCCATCAACCCAGTTTATTCCAACGGC
 CAGAGCCAACTGTTGAGGTCCAGGCTAATGTCACCTCAGAGGGAGATCTGCCAGCTGGA
 TCTAAGGTGGCCTTTTATCTAGATTTCATCGCCCATGATACCGCAGCTGTTGATGCGGAA
 GGGCATGCCAGCATCTCGATTGATGTGGACAACATCGCAAGCGAGCAGCCTGAACGCACA
 TTTGAGGTTTCGCGCCCGACTCGTCGTTCCAGAAGATGCACCACGATCAATCGCGCGTGAT
 GCCTTGGCACGTTTTACAGTCTGTCTGAACAAGTGCAGCAGAACTCCTTGGTGATCATG
 AATCATCCAGATGTGTTTTCTGATGGACAAACAAAGACTATTGTTCATCGCAGCGAAGGCG
 ACAGCACACGATGGATCGCCGGTGGCTATCGGTACTCTCATTGCATTTTCGCGTCAACGGT
 ATTGAGCGGGACGTGGTTCCAACCTAACGCGCAAGGAACAGCAAAGCTTCAGCTAGACCTC
 AAGCCAGTAAATACTGAAGACGAGGAATATGAAGTAACAGTTGAAGCCGAGCTGGATGAA
 TTGACTGCTCAGACCACGTTCAAAGTACTTGCTGGTGAGGAAGAGGAACCCACCAGCACC
 GAAGAACAACCGTCAGAACTGAGCAGCCTTCTGAACCTGAAGAGGAATCGACTGGTGT
 GCTGGAAGCTCTAACGGTGGCAGTTTTGTGCGCCTTTTAGCGCTGCTGGCAGCGCTTGGT
 GGCATCGTCGGTGCAGTCCTCGGATTGCTTAAGTTG

>RXN00983-downstream
 TAGGTGGCTGGGGGCGTCGAAAA

>RXN01014-upstream

TCTTAAAGTTTTCTAGCAATCCACACTAGGCGCGAACTATCGTGGTGTCATTGCGCACCT
TCTAAGGGTAGCGCCCCCTCAAATTTCAAGGAGCATTAAA

>RXN01014

TTGACGTCCACTAATCTCACCCGACAGGAAGCTTCGGATCGTTTCGAGGTTACTGAGTGTA
GAAACTATGACATTGCACTTGATCTCAACAACGGTGATGAGTTTTTTAGTTCCCTCCACC
GTTGTCAGCTTCACTGTCAGGAAGGCTGGCGATACCTTTATTGATCTCCGCGCAGCAAGC
GTTGAGGAGGTTTCGCTGGACAATGTGTCCATCAAAGATGAGGCTCTAACCCCTTGGAAG
AACGGCTACGACGAGACGTTTCGGCATCGCCCTGAAGGGTCTTACTCCCGGCGCGCACACC
TTGCGGGTAACGGCGTCTATCCCCATTCCCGCACCGGTGAAGGCCTGCACCGCATGGTG
GATCCAGCAGACAATGAGGTGTATTTGTACACCCAGTTTGAGACCGCCGATGCCAAGCGT
ATGTTTCGCGTGTTCGATCAGCCAGACCTCAAGGCTACCTATGATCTGAACATCAAAACT
CCTAAGGGTTGGAAGATCATTTCCAACCTCTGAGCAGCAGGTTTCCACTCAGCACACTGAT
TACGATACCCACATTTCCCGAGTGGACTATCCCCCTCTCCACCTACCTGATTGCGGTGTGC
GCGGGTCGTTACCACGAGGTGTGCGATGTCTGGAAGGGTACGCTCACCCACCATGCAGAA
ACACCTGCCGATCAGCCAACTGAGCTGACTGTTCCGCTTGCTCTCTACTGCCGCACTTCT
TTGGCTAAAGATCTTGATGCGGTGCGTCTGTTTACCGAAACGAAGCAGGGCTTTGATTGG
TACCACCGCAACTTCGGGTGTGGCGTACCCATTTCGGCAAGTACGATCAGATCTTCGTCCCT
GAATTTAATGCTGGCGCGATGGAGAACGCCGGCGCTGTCAACCATCCGCGATGAGTACGTT
TTTGATCCAAGGCAACCCGTTACCGCTACGAGCGCGCGCTGAAACCATCCTTCACGAG
CTCGCTCACATGTGGTTTCGGTGTGCTGGTGACCATGCAGTGGTGGGATGATCTGTGGTC
AACGAGTCTTTCGCCACTTGGTCCGCGCAATTTCTCAGGCTGAGGAACTGAATACAAC
ACTGCATGGGTGACTTTTCGCCAATGTGGAGAAGTCTGGGCGTACCAGCAGGATCAGCTG
CCTTCCACCCACCCGGTGTCTCTGACGGATACGACATTGAGACTGTGACACAGAACTTC
GACGGCATCACCTACGCAAAGGGCGCCTCGGTGCTCAAGCAGCTGCAGGCATACGTTGGC
CGTGAGGAATTCCTGGCAGGCGTACGCAGGCACTTTGCCAACCACGCATGGGGCAACGCC
AGCTTTGATGATCTGCTCGGCGCCCTCGAGCAGTCTCCGGCCGCGACCTCTCCGACTGG
GCAAACCAAGTGGCTCAAGACCACCGGCATCAACACCCTCGGCGCAAAGTTACCAACCGAC
AACGGCAAATACACCTCCTTCTCCGTACCCAGACCGCGCGCGCGGGTGCCGGTGAG
CTGCGGACTCACCGCATCGCGGTGGGTCTTTATAAGCTTGTCGACGGATCCCTCAACCGC
TACGCACGAGTAGAACTTGACTGCAGTGGCGCGTGCACAAGCGTTGAAGAGATCGTTGGA
CTTGAGCAGGCTGACTTCGTGCTGGTCAACGATGATGATCTGACGTATGCGCTGCTGGAT
CTGGATGATGATTACGCAATTTTGTATCGACAATATTGATAAGTTCAGCGACCCTATG
CCTCGCACGCTGGTGTGGTCCGCTGCGTGGGAGATGACTCGCGCTGGTCAAGGCT
CGTGATTTTCATCGCGCTGGTTGCTCGTGGCGCTGCTGCGGAACTGAAATTGCTGTGCTG
GAGCGCATTCTCGCGCAGGCTACCTCTGCGCTGAAGAGCTACGCCGACCCAGCGTGGGCA
GAAGCAACTGGAAATGACCTGCTGGCCGATGCTTTCTTGAGGGTGCTCGCTCCGCAGAA
CCAGACTCCGACACTCAGTTGGCGTTTATTGAGGCTCTGGCAAAAGCAACGCTCAATGAT
GCTGCTGCCGATTACTTCCGCGACATTTCCCGGCAACGTCGAAGGCCGTGACCGTGGAT
CCTGACCTGCGTTGGTGGGCACTGACTGCGCTTATCGCCCGTGGTGACATCGAGGCTGTC
GAAGATGCAATCGCCGCTGAACTTTCCCGCGACAACCTCCAGTGCCCTCCTTCCTCGCATCA
CTTCGAGCCGGTGCCGCTGTGAACACTGAAGAAGTGAAGGCTGCTGCATACAAGCATGTC
ACGGCAGTTGATAGTGGCCTATCCAACCTGGAGCTGCGCCACAAGATTGAAGGCCTCACA
TTCACTGGCTCTTCTGAACTGCTGCAAGCCTACAACGAGCAGTACTTCGAAATCCTTGAT
GATGTGTGGGCGAACTTCTCCGGCGAAATGGCACAGCAGATCGTCTCGGACTGTTCCCT
TCATGGAACGTTTCCGAAGAGGGTCTCAAGCGTACCGACGAGTTTCTTGATGGCGAACAT
GTCGCAGGCATCAAGCGAATTGTTTCCGAATCCCTCGACCGCACTGCCCCGTGCTCTGCGC
AACCGTGCGGCAGATGCTGCG

>RXN01014-downstream

TAAGTAAAAGATTCTCAATCCCA

>RXN01046-upstream

TAGCGATCCTAGGCAAAATGCACCAGCTAACCCACCGCTCAACCGCCATCTGCCCCAC
CTCACACTCATCACAGCAGGGTCTCCCTCCGGGCGCCATT

>RXN01046

ATGATCCCTTTTCCAGGGCAACCGCAGCAGCAAAGCGCACCCAATGACGAGACCCGTTTC
 ATCGACCTTAACGAACGTCTATAAGATGATGAACCAGCCCTGTTTCGCGATGATGTTATT
 GATCAAACCTCTCGCTATTTTGATCAGTAAAAATAAGCCCAATGCGCTACTCGTTGGGCTT
 GCCGGTACAGGTAAATCCCGTATCGCAGAAGATATTGCGCGCCGCTTGCCAATGACGAC
 GTATCTATTCCCGATCAGCTTGTCGGCCACCGTATTCTTGATGTCTCCATTGCAGAGCTT
 GTTGCTGGTGTGGCGTTGTTGGTCAGCTCAAGAAACGCATTCTGGATCTCATCAAGTAT
 GCGACCGACCCGAGTAACAAAGTCATTATCTTTATTGACGAGATTACCAAATTGCTGGT
 GATCAGTCCAGTCACAGTGGATCGCAAGCCAAAGTTGCTCAGATTCTCAAACCCTATCTT
 GCCCGTGGTGACCTTCGTGTTATTGGTGCCACCACCACCAGGAAGCTCGTGACTTCGAT
 CATGATCCAGCCCTCAAACGCCGTTTTAGCAGAGTAAATGTCGATGAATTTGATCGAGAT
 CAAACGCTCACTATTCTTCATGCTGCACGTGATGGTTACCTCAAACATTTCAACAACGCT
 GTCACGGTATCTGACGACGTACTGGGCTATGTCTACACCTACTCGCAGCAATTAACCCA
 GGCAATACAGCACAACTGATGCAGCACTGACGCTGTTTGATAAGGCGTTGGCTTCCCTA
 ACTATGGAGAAACAGCGTCTGATCAACAACCATGTCAATTGCGCCGTCGCTCAAGTTCCCT
 GTGTCAGAAAGGCACATCCATAACACCGCTCGCAAACCTTGCTTTGGCTCTCAAGTGCCA
 GCCTCCATCAATACTGATGATGCTCGTGACAACTCGAAACGTTGTTTGGTCAAGATCAT
 ATTATTGAGCCAGTACTACCGCTATCAAGCGTGAACAGCTTGGTATTTTCCCTCGCACC
 AAACCATGAGCTGGGTGTTTGGTGGTTCATCTGGTGTGGGTAAAACAGAAATGGCGCGT
 ATTCTCTCTCGCGCCATTAATGGCGGCGATCCCATCATTATCAATGGTCCCGAATACATT
 AGTCCTGAGTCCATTACTGGCCTTATCGGATCATCCGATGGCTATATCGGCTCTAATTCT
 AAGCGTGCTAAACCACTCGACCCGCTGATTTCTAATCCGCGTCAGGTGATTGTGCTCGAT
 GAATTTGAGAAGTCTCACCTCATTTCCAGCAATTGTTTCATGGCAGCTCTTGATACAGGC
 ACTATGGCGATGGCTAATGGCAGCAGATTGAATTTCTCTCAGGCCATTATCATTGCCACC
 ACCAATGCAGCCCGCGACAAAATCGGTGCTGACAGCTTTGGATTTCGATTTCAGATAAATCA
 GGTGTCCTCGGTTCTGCTCAAGCAGCAACTGATCCGCGTGCACAGGAACGCCTCAAGTCA
 CTGATGTCCAAGGATTTCTGTTGAACTGCTCAACCGTTTCCAGAATATCTTTGCCTTCA
 ACCGCATTGATGCAGGCACCTACCGTGAGATTCTGGACAATCTCTACCAGCGTCGCCGTG
 ACGCCGTGCTGCTTAGCCACCCCGCATTACGCAGCACAGATCCCTGCAGATATTGATTCA
 GACACTCTTGATCAGCTGGTGGAACACCTTTATCTCAGATTTTGGTGCACGTCCTGCT
 GCACGCACCATCGAAGACCACATCGCATCCTTGCTGATG

>RXN01046--downstream
 TGACCAACCTTTTAGGAGTACAT

>RXN01120--upstream
 ACAGGTAAAGCGCTAAGATGGAACAACCCATTGCCAATATTGTTGGTTAGAGTTGTACGC
 AGTAAATCTTTTCAATCGTGGAAGCGGGTCTCACAGTCTA

>RXN01120
 ATGGCAGTATGCAGGAAAGCGCCGATCTGCTCAAATGTTTCTTCTGCGGAAAGAGCCAA
 AAGCAGGTAAAAAACTCATCGCGGGTGGCGCCGTATATATCTGTGATGAGTGCATTGAG
 CTGTGCAACGAGATTATTGAAGAAGAACTCGGTCAAGCTCAACACGACGAGCAGGAGCGC
 AACGAGCTCCCCAAGCCGTCGGAGATTTACGCTTCTTGATACTTATGTCATCGGGCAG
 GACCCAGCAAAACGTATCCTGTGCGTTGCGGTGTACAACCATTACAAGCGTCTCCGCGCA
 TCGGAAACCATCGGTGCTCGCAGGAATGACGAGCCTGAAACCGAAGTGGTTAAGTCCAAT
 ATTTTGATGCTCGGCCCCACTGGCTCCGGCAAGACTTTTCTTGCCAGACTTTGGCAAAG
 CTGCTGGATGTTCTTTTGTATCGCGGATGCCACCTCACTGACCGAGGCTGGTTATGTG
 GGCGAGGATGTGGAAAACATCTTGCTCAAGCTGCTTCAGGCTGCTGATTTTGATGTGGAA
 CGTGACAGCGCGGCATCATTTACATCGATGAAGTGGACAAGATTTCCCGCAAGTCTGAA
 AACCCATCGATCACTCGCGATGTTTCCGGTGAAGGCGTGCAGCAGGCACTGCTGAAAATT
 TTGGAAGGCACTGTGCGCGCAATCCCACCGCAGGGAGGACGCAAGCACCCCAACCAGGAT
 TTCATCCAGCTGGATAACCAACATTTTGTTCATCGTTGCTGGTGCCTTCTCTGGTCTG
 GAGAAGGTTCATCGCGGACCGCAATGGCAAGAAAGGCTTGGGCTTCGGTGTGGAGGTCTCT
 TCCAAGAAGGAAGAAGCCAACATTGTGGATATCTTCAAGGATGTCTTCCCTGAGGACCTG
 GTGAAGTTTGGTCTCATCCCAGAAATTCATTGGGCGTCTGCCAGTCGTTGCCACCGTATCC
 AACCTGGATCAGAAATCTCTGGTCAAGGTTCTCACGGAGCCTCGTAACTCATTGGTGAAG
 CAGTATCGACGTCTGTTTGAAATGGATGACGCTGTGTTGACCTTTACTGATGATGCTTTG
 GAGGAGATCGTCAATCAGGCACTCGAGCGCAAACTGGCGCCCGTGGCCTGCGCGCGATC
 ATGGAAGAGATCTTGGTCCGATCATGTATGACCTCCAGACCGTAAGACGTTGGCGAA
 GTCATCATCAACGGTGCCGTTGCCCGTGGCGAAGCCGAACCAGAGATGTTGGAAGCTGTC

GCAGAAGAAAAGACCGCG

>RXN01120-downstream
TAGTTGGCAGGAGTTATCACCGG

>RXN01145-upstream
TAATGTAGTTGTCTGCCCCAAGCGAGTTAAACTCCCACGATTTACAGTGGGGGGCAGACAT
CTTTTCACCAAATTTTTACGAAAGGCGAGATTTTCTCCC

>RXN01145
ATGGCTATTGAACTGCTTTATGATGCTGACGCTGACCTCTCCTTGATCCAGGGCCGTAAG
GTTGCCATCGTTGGCTACGGCTCCCAGGGCCACGCACACTCCCAGAACCTCCGCGATTCT
GGCGTTGAGGTTGTCTTGGTCTGCGCGAGGGCTCCAAGTCCGCAGAGAAGGCAAAGGAA
GCAGGCTTCGAGGTCAAGACCACCGCTGAGGCTGCAGCTTGGGCTGACGTCATCATGCTC
CTGGCTCCAGACACCTCCCAGGCAGAAATCTTACCAACGACATCGAGCCAAACCTGAAC
GCAGGCGACGCACTGCTGTTGCGCCACGGCTGAACATTCACTTCGACCTGATCAAGCCA
GCTGACGACATCATCGTTGGCATGGTTGCGCCAAAGGGCCCAGGCCACTTGGTTCGCCGT
CAGTTCGTTGATGGCAAGGGTGTTCCTTGCCCTCATCGCAGTCGACCAGGACCCAAACCGGA
ACCGCACAGGCTCTGACCCTGTCTACGCAGCAGCAATCGGTGGCGCACGCGCAGGCGTT
ATCCCAACCACCTTCGAAGCTGAGACCGTCACCGACCTCTTCGGCGAGCAGGCTGTTCTC
TGCGGTGGCACCGAGGAACTGGTCAAGGTTGGCTTCGAGGTTCTCACCGAAGCTGGCTAC
GAGCCAGAGATGGCATACTTCGAGGTTCTTCACGAGCTCAAGCTCATCGTTGACCTCATG
TTTCAAGGTGGCATCAGCAACATGAACCTACTCTGTTTCTGACACCGCTGAGTTCGGTGGC
TACCTCTCCGGCCCACGCGTCATCGATGCAGACACCAAGTCCCGCATGAAGGACATCCTG
ACCGATATCCAGGACGGCACCTTCACCAAGCGCCTCATCGCAAACGTTGAGAACGGCAAC
ACCGAGCTTGAGGGCCTTCGTGCTTCCTACAACAACCACCAATCGAGGAGACCGGCGCT
AAGCTCCGCGACCTCATGAGCTGGGTCAAGGTTGACGCTCGCGCAGAAACCGCT

>RXN01145-downstream
TAAGTTTCACCCCTTTGACGGCT

>RXN01152-upstream
AGTGAAGGATCTGATGTGGTTTGAACAAGCCCTGGAAGCCTATCTGGTAAATTAACGCCG
AGTTCAATCAAGACAAGCACACAGAAGAAAGTGAGGGCTC

>RXN01152
ATGCCCTACTCAGGTCCGTTCCAAGCAGGCGACCGGTTTACGCTCACCGACGCTAAACGC
CGCCATTTACCATCATTTTGAACACAGGAACCACTACCACACCCACCGTGGACAAATC
GCACACGATGACATCATCGGCGCCGATGAGGGCACTGTTGTCCACTCCACCATGGGCTCT
GATTACTTGTGCTTCCGTCACCTCATGGTTGATCACGTGCTGAGCATGCCTCGTGGCGCT
GCAGTTATTTATCCAAAGGACTCTGCACAGATTCTGGTCGAGGGCGATATTTTCCCTGGC
GCCCCAGTTCTGGAAGCTGGCGCTGGTTCCGGTGCACTGTCCATGGCGCTGCTTCGTGCA
GTGGGTGAAAAGGGCAATGTCATCTCTACGAAATCCGTGAGGATCACCTGGAGTACGCA
GTCTCCAACGTGGAGGAGTACTTCGGTGAGCGTCCAGCAACCTGGGATCCACGTCTTGGT
GACCTGAAAGAAGTCACCGTTGAGGATCTCGGCGGACCTGTTGACCGCATCATCTTGGAT
ATGCTTGAGCCGTGGGAAATGCTGGAGACCTGCAAGGATCTTCTCATCCCTGGTGGTGTG
TTTATGACGTATGTGGCGACCGTGCCACAGCTGATGAAGGTGATGGAAGGCATCCGCGAG
CAAAAATGCTTCACGGAGCCACGCGCTGGGAATCTTTGGTTCGTGATTGGAAGGTGGAG
GGCTTGGCAACACGCCCTGAGCACCGCATGAATGCCACACCGCGTTCTTGGTGTGACC
AGGCGTTTGGCTGATGGCGTGGAGCCTCCTCGTCCGCAGCGTAAGGCACGTCTGA

>RXN01152-downstream
TAAAAAGACCTAGTTGGAGGGCG

>RXN01166-upstream
ACCGTACCCACAGACACACCAGAATTAACAGAAACAGACTGAAAAACAACATCGCTCGAC
ATGCGCGTAATCCTAACC CGCGCACACTAATGTGGCCGAT

>RXN01166

ATGGGGCTACACCAACCTCAACGACACACGGGTCTTGCGCGCCGGGTCATGTGATGCCTGG
TGGCGCAGCATGTCTCCGCTAGTGCAGCAGGGAAGTGAGGCAGTCTTTCGGCGCATCATG
GGTCTCTCGCGGCGTCCGTGATCGGAAACCTGGCTTTGACGATGTCCACATTTTCGGCGCA
GCTGTTTCGAGTTCCCGGTCTAAACACGGCACGTTGGTCAATGCTGCACCTTGAAAAGTT
TTGGGCGCACGGGGCGAGCCCAACCCCGGAGTTTCGTACCGTTTTGAATACATCACCGGT
GATTCGCGAGGTCGAGCCATCACTGCGACCGGCGCTGTCTCTTTTCCACACGCCCTTG
ACAACGGGCGCGCTCCCGCGATCGCCATGGCTCCATCCACCAAGGCGTCGCACAGCAC
TGGGATCCCTCCACACCTGCGCCATCGGACTCAACGCATTCTATGACAAACCTTCGAC
GCAATCATTGCTTACGAACTCCCCGTCACTCTCTGGTTTTCTAGCTCACGGACTTGACGTT
GTGTTTCATCGATTACCCCCGCGACCCCGCAACCGGCGTCCAATACTATTGCGATTCCATC
GCTGCAGCTAAATCGCTTCTCGACGCCGTCTCGCTCCAGACAACTCGGCCTTTCACCG
GAAGCACCGCTTGGCCTGTGGGGATTCTCCCAAGGAGGCGGCGCCACTGGCTGGGCTGCA
CAATTGCGAGATTACGCACCTGATGTCCGCCAAAGGCAGCGGTCTGGGCGCTCCACCA
GTGGATCTCTTCCGCGTCTTGGACACTGTGACGGCGGATTGCTCACCGGAGTGATTGCC
TACGCCATCGCGGGACTTGACGTGAACCTCTTCAGAGATGTTTGAGGAAATCATGTGCGGTG
TTAAATGAACGCGGAGTCAGTGATGTGCTGAAAAATATCACCAGCTGCGCGGGAGGTTCC
TTGTTGGCCAGTGGCTACTCGTCTTCCCGCGGGTGGACACATCAGGGCACGCCGCTGGCA
GACATTCTGGACGATCTGCCACTTGTGTGCTGCTGAGTTTGGGAAGCAAAAGCTGGGTCGT
GTGGCGCCAGAAATCCAGTGCTGTTGTGGGGCTCTAAAAATGATGATGTCATTCCCATT
GATCCCATTAGGGAATTGCGTGATAGCTGGGCGGACAAGGGTACGCCATTGACCTGGCAT
GAATCCCAAGCGCGCGTGTGCCAGGACGCACAGGTCTCAACCATTTTCGGGCCCTATTTT
AGAAACCTGGAAGTACTCGGGATGGCTCATAGATCATCTTGTC

>RXN01166-downstream

TGAGTGCCGTTTTAAAGGCTCGG

>RXN01181

TCTGTACTGCTCGCTCGCGACTTGGTGAACACCCCTTCATCACACCTGTACCCAGAGTCC
TACTCAGTAATTGCATCCAACGAAGCGTCCAAGCACGGCTTGACAGACCACCATCCTGGAT
GAGAAGCAGCTTGTGATCAAGGTTTCGGCGGCATCCTCGCAGTCGGTAACGGCTCCTCC
CGCAAGCCTCGTCTGCTGCGCATCGATTGGAAGCCACGCAAGGCTAAGAAAGTCGATCGCT
TTGGTTGGCAAGGGCATCACCTTTGACACCGGCGGAATTTCCATCAAGCCTGGCGCAAGC
ATGGAGAACATGATCTCCGACATGGGTGGATCCGCATCCGTATTGGCCACCATTATCGCT
GCAGCTCGTTTGAACCTGTCGATCAACGTCTTCGCGTTCTACCAATGGCTGAGAACATG
CCATCCGGTGACGCTTTCGCCCCGGCGATGTCATCACTCATTTCCGGTGGTATCACCTCC
GAAATCTTGAACACCGACGCTGAAGGCCGCTCATTCTGGCAGATGCCATTGCTTACGCT
TCTGAAGATAAGCCTGACTACCTCATTGATGCGGCAACCCCTGACTGGTGCTCAATTAGTC
GCTTTAGGCCTGCGGACTTCAGGTGTATGGGTACCGATGAGTTCCGCGACAGCGTTGCC
AAGACTGGCCGCGAGGTTGGCGAGCAAGCATGGGCAATGCCTCTTCCTGAAGAGCTCGAT
GAGCAGGTTAAGTCCCCTGTGCTGACCTGCGCAATGTACCAATTCCCCTTTCGCAGGA
ATGTCTGCTGCGGGTCGTTACTTGCAGGAATTGTTGGTGCCGACATCGAGTGGGCTCAC
GTCGATATCGCTGGCCCTGCATACAACACTGCTGGTGAATTCCGTTACACGCCAAAGCGC
GCAACCGGACAACCAGTGCGCACCTTCGTTTCAGGTTCTGAAGGATCTGTCGGAAAGC

>RXN01181-downstream

TAAACGCTAGTTAAAGATCAGGA

>RXN01226-upstream

CGTGCGGGGAAATTTAAAGTGATGACAGTGACAGATCATCATGGAGGTTTCCTCACATGG
TGGCGGGGCTGTTTTGCTTGTGGTGGACTCATGGTTGG

>RXN01226

ATGGGGGATGTGAATAACTCTCCCCTTTTAGTTGTTGGCCTGGGAAATCCCGGCCCGAAA
TACGTTGGCACCCGCCACAATATTGGCTTTGAGGTTGCAGAAGAACTAGTGTGCGCGAGC
TTTGATCATTTAGTGTGCACAAGCGCTCCAACACCGATATCGCGCAGCTTCCTGGGCTA
ATTGTGGCCAAGCCGCGCAGCTTTATGAACCTGTGCGGAACTCCGATTTCGGGCGCTGTGT
GACTTCTTTAAGATTTCCCGAGCCAATGTCACTCGTGGTGATGATGAATTGGAGCTTGAT
TTTCGGCTCAGTGAAGCTACGTACGGGTGGCGGGGATCATGGGCACAATGGTCTGAAATCC

ACGTCCAAATCTTTGGGAAC TAAGGACTATTGGAAGCTCAGCATGGGTATCGGTAGGCCA
CCGGGTCGGATGGATCCGGCAAGTTTTGTGTTGAAGCCTTTTGGCAAGCAAGAACTGGCG
GATATTCCCATCATGGCGGCTGACGCTGCAGATCTCGTCGAAAAGCATTTCAGCAGGGC

>RXN01226-downstream
TAGCTACTTGCGCCGCGCCTCTT

>RXN01267-upstream
TGCTAGTTTTAAAGAGGCGTTGAGGGGTAGTATCGCGTAAGTTTATTAGTGGTTAGCGTA
GATTTTTCGAATTGAAGATGTTTCTGAAAGGTATTTAGAT

>RXN01267
ATGTATGCAGAAATTAATGGCGGTTTTATTCCAGAGGGCACCGTGCGGGTAAGCGGCGCA
AAAACTCTGCTACTAGACTTCTCGCGGCGGCACTGCTAACCGATGAGGTGGTGCATCTT
GGTAATTTCCCAACCAAGCTTGTGGATGTTGAACATAAAATTCGCTTTATTGAAGAGCTT
GGCGGAAAAGTGCATGTCGACCATGATGAGCAAAATTTAGTAGTTGATGCTAAGGATCTT
GCAGCGCGAGAAATGACTACTGATGAAGTGAATATCCGATTCGAAGTACTTATCTCCTA
GCAGCAGCGCAGATTGGGCGTGGGGAAATTGCTCGAGTTCCTTTTCCTGGGGGGTGTGCT
ATTGGAGGAGGTCTGCTGGCGGACGAGGATATGATCTTCATCTTATGGTCTGGGAACAG
CTAGGTTGTAAAATCTTGAAGAGATGATCACATTGAAGTAACTGCACCCAGGGCTTT
ATCGGGGGAGTTATTGACTTTCTTACTGTGGGAGGCACTGAAAACGCGTTACTA
TGCGCAAGTATTGCTTCAGGGGATACTAAAATGCAATGCTTATATTACCCCTGAGATA
ACTGATCTTATTGAACCTTCTGCGACGTATGGGTGCGGAGATCACTGTCTACGGTACCAGC
CGTATTCATGTAAAGGGTCGAGCAGGTCTTTTGCAGGGCGCATATATGGACGTAATGCCG
GATCGTATTGAGGCATTGACGTGGATCGTGTATGGAATTATTTACGGCGGAAGGATTACC
GTCGAAGGTGTTCCATTTAGCTCGATGGAAGTTCCTTTTATCCACCTTGAGAAGGCTGGA
GTGGATCTTTTCCGTAATTCAAGTTCGATATATATTACACGAGATGCTTGCCTTCAGGC
TCAGTTCAGCCATTTGAGCTAGCGTGTGGAAGTCAACCCCGAGTAATTTTCGGACATGCAG
GCACTTTTTGTTCTTTTAGGATTAAAAGGTGCAGGAACCTCACGCGTCTATGACTATCGA
TACCCAGAAAGAATTGCATTTGTTGAGGAATTGACAAATCTAGTTTCGGGCGACAAATTA
AGTGCAGAGGCTGGCAAGATCACTATCCAGGGAGATGCTACTTTCCGGCCAGGATATGCG
AACTCAACTGATCTACGTGGTTCTATGGCTGTTGTTTTAGCGGCGCTTTGCGCTGATGGA
AAGTCCACGATTAATAACGTCCATATGGCGTTACGTGGGTACAACGAGTTGGATAAAAAA
CTTCGTTTACTTGGTGCGGATTTAACTATCAGAGAAGGCGAAGTTCCTTCACCT

>RXN01267-downstream
TAAGAACGAAAGTTTTACATTGA

>RXN01277-upstream
TACTACTCGGTTACGTTTACGTTCGGCTGATCCAATTGGAGGCGCCCTCGGAAGCCGCCCT
TAAAAACCTGCCGGTCAAAAGATCACTAACCTGAACTTC

>RXN01277
ATGACTGATTACACGTTCTCGAAGACATTGACACCCCGGAAGCGCTCGCGTGGGCGGAA
AAATGGTCGGGGGAAAGCGTCGAAAAGCTAAAAGCCAGCCAAGGACGCCCTGGAAGCC
AGGCTGCTGGCTGCGTTGGACACCGATGATCGCATTGCCTACGTGAGCCGGCGCGGTGAG
AAGCTGTACAACCTTTTGGCGGGACGCGCAGCATCCGCGTGGAGTGTGGCGCACGACCAG
TTGGAGTCTGATGAAAGTGACAGCCGGAGTGGGACGTGCTCATTGATGTGGATGCGTTG
GCGGAGGATGAGGCGGAAAAGTGGTATGGAAGGGCGCGGTTGTGCGCTCGCCGGAGTTT
GATCGGGCGTTGGTGAAGTTCTCGCGGGGCGGGGCTGATGCGACGGTGATTAGGGAGTTT
GATCTGGCCACGGCTGCTTTCTGTGGATGATTCGCCGTTTGAATTGAAGGAGGCGAAGTCC
GATGTCACGTGGGTTGATCTGGATACGTTGCTGGTGGGCACGGATACCGCGAGGGGTCA
CTGACGGATTCTGGGTACCCGGCGCGGGTGTCTACGTGGAAGCGTGGGACTCCGCTTGAG
CAGGCGGAGTTGTTCTTTGAGGGGTGCGGTGAGGATGTGGCGACTCATGCGTGGCGGGAT
TCAACACCTGGTTTTGAGCGGACGTTTGTGTCAAGGTCGTTGGATTTCTATAATTCGGAG
ACGTCGCTGGAACCGAGGGTGGCCTGGTCAAGCTTGATGTGCCGACCGATTGCGATGTC
ATTGTGAAGAAGCAGTGGATTTTGTGAGTCCCTCGGACGGATTTGCTGGGATTCCAGCA
GGTGGCTTGGGAGTGTGCTGTTAAAGGAGTTCTTGAGGGCGGGCGGATTTTCAGCCT
GTGTTTACGCCTACTGAGTCGACGTGCTGCAGGGATTGGCCACGACAAAGAATTTCTCTG

GTTTTAACGCTCCTTAATAATGTCTCCACAGAAATCGTCACAGTGCCGCTCAATGATCCG
 ACAACGGAGCATGAACACATTGACCTCCCAGAGCATGTCACCGCGCATGTGGTTGCTACC
 TCCCCGTTGGATGGCGATGAAATTTGGGTGCAGGCAGCGAGTTTCACCGAAGCGCCAACG
 TTGCTGCGTGCGGAGCTGCCTGGTGCCTTGAGGCTGTGAAGAAGCGCCGTTGCAGTTT
 GAAAATGCTGGTCAGGAGACTCGTCAGCATTGGGCAACCTCGGCGGATGGAACGAAGATT
 CCGTACTTTATTACAGGAGCCTTCGAGGAGGAACACAAAACACCCTGGTCCACGCCTAC
 GCGGCTTCGAGGTTTCCCTTACCCCAAGCCACTCCCCGACCCGCGGCATCGCATGGTTG
 GAAAAGGGCTACTACTTTGTGGAAGCCAACCTGCGTGGTGGCGGTGAATTTCGGTCCGGAA
 TGGCATTTCGAGGCAACCAAGCTGAACCGCATGAAGGTGTGGGAGGATCACCGCGCGGTG
 CTCGCCGACCTTGTGGAGCGCGGTACGCAACGCCGAGCAGATTGCGATTTCGTGGCGGA
 TCCAACGGTGGTTTGTGACAAGTGGCGCGTTAACTCAGTACCCAGAAGCATTTCGGTGC
 GCAGTTGTGCAGGTGCCGTTGGCTGATATGTTGCGCTATCACACCTGGTCAGCGGGTGCT
 TCGTGGATGGCGGAGTACGGCAACCTGACGATCCGGAGGAACGGGCGGTGATTGAGCAG
 TACTCGCCGGTGCAGGCGGTGGTGGGCGTCGAGAAGCGAATTTATCCACCCGCATTGGTG
 ACGACCTCAACCCGGGACGACCGCTCCACCCCGCGCACGCGCGCCTTTTGTGCTCAAGCT
 TTGCTTGATGCGGGCCAGGCCGTGGATTACTACGAAAACACCGAGGGCGGCCATGCCGGC
 GCGGCGGATAACAAGCAGACCGCGTTTGTGGAATCGCTGATCTACACCTGGATCGAGAAG
 ACTTTGGATCAGCAGGGTAGCATT

>RXN01277-downstream
 TAATACCTATGATTATGCGAAGG

>RXN01302-upstream
 TGGGGCTGCGTGGTGTCTTCATCATCGCCACCGCTTTGACCTGGATCTACTACGCCCG
 CCGAACGCTCCATTCCCGGGATAAACCGAAAGGCCAATCC

>RXN01302
 ATGACTACAACCTACTTCTTCTGGGAAGTCTTCTGAAAAGATCAACCCCTCTTCAAGCTC
 GGCAGTTTCTTAAGAAAAGGCACCGTTCGGTTCTGAAGGCCAGCAGATTTTCTTCAGGGC
 GGACGCCAAGCCGATGTGTTTATCGCAACCGATGGGCTTTGATAAAGTCGTGCGCTCC
 ACACATGGCGTGAACCTGCACGGGCTCCTGCTCGTGGAAAGTGATGTAAGACGGTGTG
 ATCACCTGGGAATCCCAGGCAGTGGATTACCCAACTACCGGTGCGGATATGCCCCGACAAT
 GAACACGTGGCTGCCCTTCGGAATCTGGCGACTGGTACAACCTCCAGCTACCTCATGATG
 ATCCGCTACCCATACATCGGTGGCGTGCTAGTTGATATGTCCGCGAAGCCAAGGAACGCC
 TGGGCGATCCGGTGCTGGCGTGGCGCGACATTG

>RXN01302-downstream
 TAGAAACCCCAAGAAAAGCGCAAA

>RXN01308-upstream
 TTTCTGGTACACCTACTCCCAACCCGCATCCGCTACCCATACATCGGTGGCGTGCTAG
 TTGATATGTCCGCGAAGCCAAGGAACGCCTGGGCGATCCG

>RXN01308
 GTGCTGGCGTGGCGGACATTGTAGAAACCCAGAAAAGCGCAAAGCATATGTATCCCAG
 CGGGGCAAAGGTGGCCTCATCCGCGTTTCAGTATGAGGAAGCCATGGAGATTGCTGCGGCA
 GCCCATGTGTACACCATCCGCCAATACGGCCCCGACCGCATTCATGGATTCACCGTTATT
 CCCGCAATGTCGAGGTGTCTTACGGTGCTGGTACTCGCTTCTTGAGATGATCGGCGGA
 GTGGCGCTGTCTTCTACGATTGGTACGCCGACCTCCCAACGAGCATCACCAAACTTTC
 GGCGATCAAACTGACCTTCGGAATCTGGCGACTGGTACAACCTCCAGCTACCTCATGATG
 TGGGGTTCCAAACATTCCGGTGACCCGCACGCCTGACTCCCACTTCATGGTGGAAAGCCG
 TACAAGGGCACCAAGGTTGTTGTGGTTTCCCCGGATTTCGCTGACTCCACCAAATTTGCT
 GATGAATGGGCACGCATCCACCCTGGTACTGACGGCGCACTCGCCTTTGCCATGGGCCAT
 GTGATCTTGAAGGAATTCATGTTGACAAGAAGACGCCGTAATTCATGGACTACATGCGC
 AAATACACGGACTCTCCTTTCTCGTGGAAATTAGATGAGCACGGCGATGGCACCTACACC
 CCAGGTAAATTCCTCACTGCAGACCGCGCAGCTGATATCTCCCCAGCGCTTGCCGCCACT
 CCAAATGCCACCCACCGTCTCCTTGTGCTGCAAAAAGATGGCTCAGTTGTAGATCCCGGT
 GGCATGTGCGGACCGTTGGGGTGAAGAAGGCATGGGTAAGTGAATCTGCGCTTAGAC
 GGCGTAGATCCAGTGATGACTATTGCAGATGTACAGACTGACACCGAACTGCGGAAGTC

CTCTTCCCCCGCTTCGATCTCCCAGCAACTGCCACCCAAGAAGGCCCCATTGGTGCTGGC
 ACCATCAGCCGGGGCGTTCCCAACCATCACGTTGAATGGCCGAAAGTACACCACTGTCTTT
 GATGTGTTGCTCGCACACTACGGTGTGAACCGGAAGAGCTCAACCTTCCTGGTGAGTGG
 CCTAAGGATTTCCAGGATCCAGTCATGGGTACTCCTGCGTGGCAGGAAGAGCTCACGGGT
 GTTCCTGCTAATCAGGCGATTTCGTTTGGGTGCGGAATTTGCTCAGAATGCTGATGATTCC
 AAGGGCCGTTCCAGATCATCATGGGTGCTGGTGTGAACCACTACTTCCATGCGGATTCT
 ATTTATCGCACATTCTTGGCGCTGACCTCTATGTGTGGCACCCAAGGTGTTAACGGTGGC
 GGTGGGCTCACTACGTTGGTCAGGAGAACTCCGTCCAATGAATGGTTGGGCACAGTAT
 GCCTTTGCTACAGACTGGCAGCGTCCACCACGTCAGATGATCACCCTGGTTTCTACTAC
 CTCACCACGGATCAGTGGAGGTATGACAACACTCGTGCTAATCGTCTGGCTTCCCCACTG
 GCTAATCGTGGCACCGTGGGTGACAAAATGACGGCGGATACCTTGGTGGAATCCATGAAA
 CGTGGATGGATGCCGTCATTCCCGCAATTCAACCGCAATCCCCTCATCTTGAGCCAGGAG
 GCGGAAGAAAAGGGCGTGTCTGTTCTGACCATATTGTTTCAGCAGCTCACCGATGGTGAC
 TTGCAGTTCGCTGCGAGGATCCGGATGCACCGGAAAACCTGGCCACGCATTCTGCTTAAC
 TGGCGCACAAACCTAATGGGCTCTTCAGCTAAGGGCACGGAGTTTTTCTTGCGCCATATG
 TTGGGTGTGGATTCTGATGCATCTGCTGAAGAAAACGCGCCGGAGGATCGTCCAAGTTCC
 ATTGTGTGGAGGGATGAGGCTCCGGAAGGAAAGCTCGATTTGATGCTGACCACGGATTC
 CGCAACACTTCCACCACCTTGGTCTCGGATATCGTGCTGCCGGCAGCCACCTGGTATGAG
 AAGCATGATTTGTCCACCACGGATATGCACCCCTTCATCCACTCGTTCAATGCTGCGATC
 AACCACCGTGGGAGACGCGTACTGACTGGGAGGTCTTCCACGATCTCACCAAAGAATTC
 TCCTCACAGGCAGCAACCTGGTTGGGCACCAAACCGATGTGATCACCGCACCGATTGCC
 CATGACTCCCCGGATGAGCTCAATATGCCTGGCGGTATCGTGCCAGATATTGATGAGGTC
 GGGCTGATCCCTGGCAAGACGATGGCCAAGATCATCCCGGTGGAACGTGATTACTCCAAG
 GTGTATGAAAAGTGGACACACTTGGGACCACTACCGCCAAAGCGGGTACCGGAACCCAC
 GGCACTGCGTTTAACTGACCAAGCAAACCGAGGAGCTGGCGCTGATCAACGGCACCTCC
 ATC

>RXN01309

ATTGCAGACCACGAAGGTACCCACATCAATTGGGACATGGTCAAAGAACGTTCCGCCGAG
 GTGATCACCTCACCGGAGTGGACTGGTTCCAAGAAGGACGGACGTCGCTACACCGCGTTT
 TCCATCAACATTGAATACGACAAGCCGTGGCACACCCTGTCTGGTCGCATGCACTACTAC
 CTCGACCACGATTGGTTTATTGATTACGGCGAGCAGTTGCCAATCTTTAGGCCACCGTTG
 GACAAGATCCACATCAATGGTGAGGTCGGCCCTGGCCAGTCGGTCACAGGCACCGACGGC
 GAACCAGAAGTAACCGTGCGTTATCTGACCACCCACAACAAGTGGTCGATTCACTCGCAG
 TACTACGACAATCTGCATGTGCTTTCTATTTCTCGTGGCGGCCAGGTGATCTGGATGTCC
 AACAAGGATGCAGAGAACTCGGTATCGCTGACAACGATTGGATCGAGGCTTATAACCGC
 AACGGCGTTGTTTCTGCTCGTGCGATTGTCTCCACCGCATTCCTGAAGGCACCGTGTTT
 ATGAACCACGCGCAGGAACGCACCGCTGGCACCCCGCTGAACGAGAAGTCTGGCAGGCGC
 GCGGAACTCACAACTCTCTTACTCGAATCATGATTAAAGCCGGTCCATGTTGCCGGTGGC
 TACGGCCACTTAACCTATGGCTTCAACTACATCGGCCAACCGGAAATAACCGCGATGAGG
 TCACCAGAATTCTGTCGCGCTCCAGGAGGTGCAGTACTAATGAAGGTCATGGCTCAGAT
 CGCAATGATCATGAACTTGGA

>RXN01309-downstream

TAAGTGCATTGGCTGCCACACGT

>RXN01386-upstream

CTCTATTGTGGTACGCACCATGACTGCTCAACCAGCCACGAGCCGCCAAGGCATCTCCG
 GTTCAGTACGAGCGGGATCCTCCCGACAATCGCGTCCAA

>RXN01386

ATGTGGGAGGGCCACAATGCTCGCGCATTGCTTCCGCTCGACATTAGAACCATTGACGAT
 CGCCCCATGCAGGCCTCCGAAACCAACCTGCACCTCCCATCAATGCGGATGGCGAGCGTA
 TTCGGGACTTCGCAATTTGTGCGAGCGTTTCAGAGAGTTTCATCTCAGAAAACCCACGGGT
 GTGGTTGCGATCTTCTTTGCGACTGAAGGTGAAGCAGTCTTCTCCACCGTGGTGGACAT
 GTAGCGCTTCGGCCAGGTCAGGCCATTGTTTACGACGCCGATAGGCCATTCTCCGCGGA
 TTCAACAATCGCTTCCGCGAGCTAGTTCTCACCATCCCGAAGCAGCGCTACCTTGAAATT
 GTTGGCTCAAAAGGCCCTGAGCTTCCCGTATTTTTGAGTTTCGAGCAACAGGAACCGCC
 AATGAACAAGCTTTAGCGCGACTAGTTTCAGGAATCTCTACACAGGATTGAAAGTGGCGAG

CCGAAGCATATCGATTCCAGTGGACCTTTAGGAAAACCGTGGAGCGATATCGAGCACGAG
 GCCCACGGACTTATCCGCAATGTACTTGGCGACGCCACAAGTAGCGAAGAAGGCTTAATT
 TCTGCAGCCCAGAGATTTATTGACATCAATATTTCCGAAAGTGAATACAAGCGTCGCGG
 ATTGCTGCAGCCGTGGGAATCAGCGAACGCCAACTAAGTCGAATCTTCTCAGACTCAGGA
 CAAACTATCGGACGCTACGTCTTAAACACCCGACTGGATTTTGCAAAGGAAGCGCTGTCTG
 ACACCGGAGCGAGACAAGGTTTCGGTCAGTGAGATCGGTAAGCGCTTTGGGTTTCGCTTCC
 CCAAGTCATTTAGTCGCACCTTCCGCGAGCGGTTTGAAATGACGCCGCTTCAATGGAGG
 AAGGAATCGCAGCGTCAATCCTTTCAAGAG

>RXN01386-downstream
 TGAGGTTTTTGTCTCAGGCGGA

>RXN01461-upstream
 TCGACTATGACGAGACCCGTGAAAACCTTCGCGCTTGGTTACAAGTTTCGACATCGTCCCTTC
 GTGGCCGCAACGCCACCCCATTTGAGTAAAGGGTTTTGCA

>RXN01461
 ATGATTGATACAGGGAAGAACGGCGAGTTCGCTACGAGCAGTCGAATATCATCGATCAG
 AACGAAGCCGAGTTCGGCATCACTCCTTCACAGACCGTGGGCCCTTACGTCCACATCGGT
 TTGACCCCTTGAAGGTGCGGAGCATCTCGTGGAGCCAGGTTTCGGAAGGCGCGGTGTCTTT
 ACTGTTTCCGCAACTGATGGCAACGGCGACCCCATCGCGGATGCCATGTTTGAAGTGTGG
 CAGGCCGATCCAGAGGGCATCCACAACCTCTGATTTGGATCCAACCGCACAGCACCAGCA
 ACCGCAATGGCTTCCGCGGGCTTGGTCGCGCATGGCAAACGCGCAGGGTGAGGCAACG
 TTCACCACTTTGGTTCCGCGGAGCATTCGCGAGATGAGGCACCACACTTCAAGGTTGGTGTG
 TTCGCCCCGTGGCATGCTGGAGCGTCTGTACACTCGCGCATACCTGCCAGACGCCGATTTG
 AGCACCGACCCAGTTTTGGCTGTGGTCCCAGCTGATCGACGTGACCTCCTGGTGGCTCAA
 AAGACCGATGATGGATTCCGCTTCGACATCACTGTCCAGGCTGAAGACAATGAAACCCCA
 TTTTTTGGACTC

>RXN01461-downstream
 TAAATTGACCCGATCTTTATACT

>RXN01466-upstream
 AATCCATGATCCCAAACCTACCTCAAAGCGCTTGTAGGCTAAGACTTATGGATACACAACG
 CGGCTCATTGCGGGGAAAAGCTCATAAAGCAAGGCTAAAG

>RXN01466
 ATGACGCCAAATGGTCGCAGGCAACTCCTCCTGGAGCGTGGCGCAGCATTTAGCAAAAAC
 CGTACCCCGGGTCTAAACACGTTCGACCGCCACACCATCGTGGACTCCGACGGCCTCAGC
 ATCCACACGTACATGGTTGGCCATGCCGAAAATGCCACGGCAACGGTCGTGTTTCATCCAC
 GGCTTCACCTCGCCGCCGAAGTGTATTACATGCAGGTGCACTACCTACAAACCTTTTAC
 CCAAATATTAAAGCGTGCTTATCGACGCCCGCGGCCACGGCGCCACCGGCCAGATCCGC
 CCAGAGCTCTGCACCATCGAAGGAACAGCGAACGATGTTCTCGCAGCCATCCACGAACAC
 GCACCGACCGGCCCGCTCATTTTGGTTGGGCATTCCCTCGGCGGACTCACGGCACTTAAC
 CTGGTTAAACGGGCAGATCACTCACTTCGGAAGAGGATCGTCGGCATGGTTCTAGTCGCC
 ACATCGATCGAATCATTATCCACCCAAGGTCTACCACAAGTCTGGCATCACCCCTTGCC
 GACAACATCAAAAACGCCGTCGAAGCAGCCCCAACGATGCCCCAAAATTCGCCAATAC
 GCCACCACATTTCTAGCCCCCACCCTGGCCACCGCAGTCTTCCAACGAGACACAAACGAT
 GAAGTCATCGATTTCCACGCCGCCATGATCCACGAAACCCCTTGGATACCTTCGTGGT
 TTCTTCGACGACCTCCAAGAACACGACGAACCTCGATGCCGCACCGAGCATTTGGAAGGCCTC
 AAAGGCTACGTCCTTGCCGGCGAATTAGATGATGTACCCCAATTAGCCAAGCCGACCGC
 ATCTGCGAAGTCTGGCCCGGCGCACGCCTTCAAATCGCAGAAGGAGCAGGTCATATGCTT
 CCGCTTGAAGCGCCAGGAATCCTCAATAATGCGATCGGCAACATTTTGGACGGGCTGGGC

>RXN01466-downstream
 TGAGGAACCTGGTTCGGGCGTGG

>RXN01499-upstream

9

Appendix A, page 130

GATGCGTTTCGTGGAATCCGTGGCTGGCCCATGGTTCCTCGTGCCCAACCTGGGCACCGGC
 GCGCTGAACGCCGGCATGAGCGCGCTTGGCGCACACATCGGCCGTGGCGCATGGATCGAA
 TCCTACTGGCTGCCGGAACCGACCTCTGCTACATCGGCAAGGGCGCAACCGTGGGCCCT
 GGCGTGGTTCGTGCAGACCCACCTCTTCCAGGACCGCGTGATGAGCCTAGATACGGTGACC
 GTCGCTGACGGCGCCACCCTAGCGGACCACTCCGTTGCCCTTCCTGCTTCGCTTATCGAC
 GCCTCCGCCACCATCGGCCAGGCTCGCTGGTGATGCGCGGCGACAAGGTACCAGCGCAT
 ACCCGCTGGCAAGGCAACCCAATTGAGCCGTGGAGCAACTCT

>RXN01499-downstream
 TAAATAACAACAATCAGCCGGAT

>RXN01555-upstream
 CTGGTTTTGTGCGGAGGATCAGCCAGCAAGTTAATGATCCTTACATGGCGCTGTTGTTGG
 CGCGGTAGTCAATCATGGGGGAGTATCCACCGTATCCGC

>RXN01555
 GTGAACAAGGGCGTGGTGCTGGTAGCAGGTGGATTCTCCAGAAATCCAGAACTGCGCATG
 AAGTACATGCCAGAACCCACCCACAGTTCTCCCGCACCAACGAAAGCGCCACCGGCGAC
 ACCATGGCCCTTGCTGCGAAAGTGGGAGCACGCCTAGGCGACGACAACGGTGAAAACGCA
 CTGTGGTTCCTCATCGTCCATCGGCACCCGCGCCGACGGATCCACCGCGGTGTACCCACAC
 ATTTGGGACCGTGGCCGCCTCGGAGTCATCGCAGTCAACGCAGCAGGCGAGCGTTTCGTC
 GATGAATCCGCTCTCTACCACCGCTTCGTGCGCGCATGTACGAATCCAACAAAACCAACC
 CCGACTGTTTCAGCCTGGCTCATTGTTGATTCCACACCCCTGGCAAATACGGCCTCGGC
 ATGATCACCATGCCACACCTGCCTAAACTCGCTCTGCAAAAATACATCGACTCCGGATAC
 CTGCACGCAGGATCATCCTTGGATGAATTGGCACGCAGCATTGGTGTGGACGCTCGCGGC
 CTGGAACAAACCGTCAAACGCTACAATACCTTCGCTAAAACGGGTATCGACGAAGACTTC
 CACAAGGGCGAACTCCTCTTCGGTCAAGCCGCGGCGATCCAGACAACAAGCCAAACCCC
 AACGTCGGACCAATCAAGAAGGGACCGTTCTACGCAATCGCTGTAGTCCCAACCCCTCTG
 GCCACTGCCTTTGGCATCAGCATCAACCCCAACGGACAGGTTGTTAGTGAAGATGGGGAG
 CCCATCATTGGACTGTACTCCGCAGGAAATGATGCCAATCTGTATGGCTTCTGAATAT
 CCTGGTGCTGGTTACAGGTTGGTTCCGGAATGACCTTTGGTTGGATCGCAGCAGAC
 CGGTTGGGGAAAGCGGGAAAATCCGGAGGAGCTAAGGCAGGATATGCCGCGTCTTCTAAG

>RXN01555-downstream
 TAATTGCTTGGTGGGTTGCTTAC

>RXN01608-upstream
 ACAGCGCGGAATTATCTAGACGCACACGTGTTGGTAACCGATCACACCAGCGCACGCTGC
 TAATCTTCACTCCATGAACAAGGTGCAGCGCAGGTCACTG

>RXN01608
 ATGGCGTTGTGCATGACGGTGGCATTGCTGGAGGAAGCCTGACCGCGTGACACCTCGT
 CCTGATACCGCAGACCCCATCGCAGAGGAATTCCTTCAAGCTTGGGCATCGCAAGATTC
 GACACTATTGCGGACATCACCGACCAAGCTGACCTTGCCACAGAAATGCTCAGCACCAGT
 TTCGATGGTCTGCAAGCAGACAGCGTTGAACTGACTTTGGATTCCGTGGATTCCCGGGAC
 ACCATCGCCACCGCCAATTTCTCCGTGGTGTGGAAGCTTCCCCGAGACAGAGAAGTTCC
 TACGACTCATCGATGACGCTGACCAAGATGCGCAACGAATGGACAGTGCGTTGGGAACCT
 TCCCTCGTGACCCCAAACTGGGCGCCAACAGCACCTGGAATTGCGCGCCATTGAAGCG
 CAGCGAGCCAACGTAATTTCTCCGATGGAGCTCCGGTTCTCGCGCCGGGAAGTATCTAC
 CGAGTTTTGGTTGATCCCAGCGCAGGGGATGCCGATGTGGTGGTCAAGAGGGTGGCAGAT
 TATTTGAATGAAGCCCATGCGACTGATGAGAATGTGAACACCCTTGATGTGAAGACATT
 ATGAGCAATCTTGGCGATTCCACCTATTCACTCACCACAGTTGATGCCAATTTGGGTGCC
 CGCATGGAACAGGATCTAGCGGGGATTCGGGGGCTGACGTTCAATGAGGAAGCATCCATG
 GTAGCCACCGACCCAGGTTTGTCTCCGGATATTGTGTCTCGCGTTGCGCGCATTGTGGAA
 GATGAATTAGAAGGATCCAATGGTTGGCGCGCCTCCATTGTCACTTCCAATGGTGCGGTG
 ATTGATGATATCGCCTACGACGCCCCAGAGCTTGCCCCAGCGTGAGGATCAGCCTGGAT
 CACAACGTTCAACGAGCAGCGGAAGAAGCCGTAGACCTGCGCGCTGAGATGAAAGCCATG
 ATGGTGGTCATGAGGCCATCCACTGGTGAAATCCTCGCAGTGGCCCAAACAGATGAAGCT
 GACAAAGACGGCGATGTTGCGCTGATGGGACAATACCCACCGGGATCGACATTCAAGATC

ATCACTGCAGCCGCGGGGTGGCGCATGAAGGATTAAGTCCAGACAGCATTGTGCCATGC
 CCTGGCACCATTGAATATCTACGGCCGAATTGTACCAACTACAACAGCTTCTCCTTGGGC
 AACACCTCATTGGATGATGCTTTTGCCAATTCATGCAACACCACTTTTCGCGGATATTTTC
 CACCCTTGGAGCCAGGCCAACTGAAAAATGTGGCTAAGCAGTTTGGCCTCGGAATTGAT
 TATCAAATCCCAGGCCTTGACACCATGACGGGATCGGTGCCTGAAGGTGACATCGTGTTG
 GACCGTACCGAATCTGGTTACGGCCAGGGTCTTGACCTAGCAAGTCCCTTTGGCATGGCG
 TTGGTCGCCTCCACTGCAGCCACCGGTTCAAGTCCCACGCCAACGCTGATTTCTGGACAT
 GAACTGTTGCCAGTGAAGAAGTTCTGGCGCTTGATCCAGAAGTCTTGCCAATGTGCAG
 CGGATGATGAAATCCGTGGTCAATGACGGTACCGCTCGTGGCATGCGCCAAACCGGTGGC
 CAGATCTACGCAAAGACAGGTGAAGCCGAAATCAACGAAGGCTCCCATGCGTGTTTACC
 GGCTACCGCGAAGATGACATCGCTTTTGCCACCCCTCGTGGTGTTGGGCGGAGGCTCCGAA
 GCGGCTGCCGCTGTGACAGATCAGTCTTTGTGAAACTCGATGAGCTTCGCGCAGGGGA
 GAAGTTGCAGTCAGTGAAGCTGAAGAGCAGCCAGTCGGC

>RXN01608-downstream
 TAAAAAATAGCCTCCATCCAACC

>RXN01619-upstream
 CCTGCAAGTTTACTGCTCGGCCGTACGGGGGAATGGAAAAAGTACGCTTGGTGTTTATA
 TAGCGAACCCATTTTCTATTGCGATGAGAGGAACACCACC

>RXN01619
 ATGCGCGCAATCACTCACAACTTTTCGGCGACCCCGCCGACGTCTACAGATTACCGAG
 AAGGAAATTTCCACTCCCGGCCAGGTCAAGTTCGTATTCAAGTGACGCTGGCAACCATC
 CACAACCATGATTTGTGGACCGTGAAGGGCTCTTACGGCTTCGTCCCAGATCTGCCGGCC
 GCCGCAGGCACCGAGGCAGTCGGCATCGTCGACGCCCTGGGCGAGGGCGTCGAAGGTTTG
 CAGGTGGTCAAGCTGTTGCGTCCGGCACCAGCTTTGGCATCTGGGCGGAGTACGCGCTT
 GTCGACGCCTCCGGCCTCATTTCCGTACCAAGACAGCTCTCCGACGAAAGCGCAGCTCAG
 CTCGTGCAATGCCTTTCAGCGCCATCAGCCTTCTTGATTTCTTGATATGAAACAGGG
 GAGTGGCTGATCCAAACTCCGCAACGGTGCCGTGCGCCGATGCTCGCACAGCTGGCA
 GAATCCCGCGGCATCCATGTGCTTGGTCTCGTCCGCCGTGACGCCGGTGTCCAAGAACTC
 GCTGCTCAAAACATCAGCGGCGTCTGTTTCCACTGAGACCCCAGGCTGGGAAAAGCAGGTC
 GAAGACATCACCGGTGGCGCAAGCATCGCCGTGCACTTGATTCCGTGCGTGATCCTCC
 GCAGCTGACCTGGTGAACTGCTTGGCGAAGGCGGCACCCCTCGTCTCCTTCGGCGCCATG
 GGCAACCCAATCATGGAATCCCATCCGGCCCCGTCTCTTCAAGCACATCACCGTCAAG
 GGCTTCTGGGGAAGCAAAGTCAGCCGCGAAATGCCAGCAGAGAAGAAAACCCAGTTGTTT
 GCGGAGCTCATTGCGCGCATACCTTGATGGAACATTGACCCTTCCAGTTGATTCCACCTTT
 GATGCCGCTGACATCGTCTCGGCCGTGCGCGCCTCCAGCGAGCCTGGCCGTGCCGGAAAA
 GTGCTCATTCTGTTT

>RXN01619-downstream
 TAAACGTTTAAGGCCCATTAGAC

>RXN01653-upstream
 TTCATTCAAGGTGAATGCTCTCCTTGTTCAGATGTTCAACGCTCCATAAAGTAGACCGC
 AATCTAGACAAAGATGTCTATTTTAATTAAGGAGCAGAAC

>RXN01653
 ATGGCCACGGCCGAGAACACAACACAGGAGAATCGGAAAAATCCTGTTCAACGCATTGAT
 ATGAACTGCGTTGCGCATCAGTCCCCAGGACTGTGGACACACCCGAAGGATAAGGCGCGA
 GACTACAACACTCTTGATTACTGGGTGCACCTTGCCAAGACTTTGGAGAAGGGCCTTTTC
 GACGGCCTTTTCATCGCAGATGTGCTTGGAACTTACGATGTTTATGGTTCTAGTAATGAA
 GCGGCGTTGAGCAGTGGTGCGCAGGTGCCTGTCAATGATCCGATCCTTCTGTTTCTGCG
 ATGGCCTATGCCACAAAGAACCTCGGGTTTGGCATTACTGCAGGTACTGCCTATGAGCAC
 CCGTATCCTTTTGCGCGGCGTCTGGCCACACTTGATCACCTGACTAATGGGCGTGTGGG
 TGGAAATGTGGTTACTGGCTATCTTCCCTCTGCTCAAAACATGGGTGACACCGATCAG
 CTGCCACATGATGAGCGCTATGACAAAGCAGATGAATACCTGGAAGTGATCTACAAGCTT
 CTCGAGGGCTCCTGGGAAGACGATGCTGTTCAAAACAATACGGAGACGAGTGTCTTTACG
 GACTCCTCCAAAGTGACGCCATTAATCATCATGGCAAGTACTTTGATGTGCCGGGCATT

GCCATCACTGAGCCGAGTGTGCAGCGTACGCCGGTGATCTACCAGGCGGGTGATCGCCG
 CGCGGATTGAAATTCGCTGGTGAGAATGCAGAAGCAGTGTTCATCAATTCAGCACCGTG
 GAGGCAATCACCAAGACTGTCGCAAAAATTCGCGCTGCTGCGGTGCTGCGGGACGTGAT
 CCACATGCGGTGAAGATCTTTGCGATGCAAACCATCATCACTGGTGAAACAGAAGCAGAT
 GCGCAGGCAAAGCTGGAGGAATACAGTCGCTATATCGATCCTGTGCGGTGGTCTGACCTTG
 ATGTCTGGATGGACCGGCGCGGATCTGTGCGCAGTATGACCTGGATGAACCGATCACCAAT
 ATTGAGTCAAACGCTATTTCAGTCCACTGCAGCCACCATTAGCAACGGCACCGGTGAAGGT
 GCGTGGACGGTACGCAAACTGGGTGAGGCAACCGGCATCGGCGGCTTCGGACCAGTGCTT
 GTGGGATCTGGCGCTAACGTTGCCGCGGAACCTGCACGCATCCAGGATCTCAGCGATGTT
 GATGGTTTCAACCTTGCTTATGCCATCACCCAGGAACTTTTGAAGATGTGCTGGACTTT
 GTGGTGCCTGAGCTGCAAAAACCTAGCCGCTACAAGACGGAATACGCGCCGGGTTCCTTG
 CGCAACAAATTGCTCGGTAAAGGTGATCGCCTGGACGATACCCACCGCGGCGCAAGCTAC
 CGCCTAGGCGCTCGGAACCTCACCGCCACTATTGATCTCAGTTCCATATCCGCCCAACTA
 GTTCCCAGGGAGCCCACTCA

>RXN01653-downstream
 TGATCTCACCGCAAACAATCATC

>RXN01716
 GAAGTCACTCCTGAGGGATTCAAAGAGATCACCCGTGAAAACACCATCGTTCGCCTGGGC
 AAAGGCGTCGACGCCACCGGTGAGCTAGACCCCGAGGCAATCGAGCGCACTCGTGTGCT
 TTGAAAACTACGTTGAACCTCATGGAAACCCATGGGGTAGAGGCCGTACGAATGGTTGCC
 ACCCGCTTGAATCGCATGCGTCCAACCGCATGAATTCTTTTCGATGACCCGCCAGCTT
 CTGTCCAAGATCCGTCTTGATACCAAGCTGAAGTAATTTCCGGCGAAGAGGAAGCTCTG
 CTGTCTTCCGAGGTGCAATCGTTGACCTGCCTGAAGACCAAGGTCTTTCTGTGTTATC
 GACCTTGGCGGTGGATCCACTGAGTTCATCGTTGGCACCTACGACGGTGAAATCCTAGGC
 TCCCACTCAACCCAAATGGGATGCGTGCGCCTGACCGAACGAATCATGCGCAGCGACCCA
 CCCGAC

>RXN01716-downstream
 TGAACCGAAGTGGAATCGCCC

>RXN01842-upstream
 CACGTATGGTCTCGCGGTGATCATCTTCCTACCGTGACAGGCAAGGCCGCAAACGGCCG
 TGACCACAGGAAGAAATTCACGAGGAGAGGAAGCACACG

>RXN01842
 ATGTGCAAGGTATACGTGTCCAACGAGTACGGCGGCCCCGGAACCAAGGAACTGATCAC
 CGCAACACCCCCAGCCAGGCCCGGAGAACTCGGGGTCAAGGTCCACGCGGCCGGGGTC
 AACCCGCTTGATTGGAAGGTCCGTTCCGGGGTTGCCGGAACCCCGGAGAGCTTCGGGCA
 CCCCTGGGCGAGGAGGCTCCGGGATCGTCACCGCCGTTGGAGACGGTGTGGAGGGCTTC
 GCGGTGCGCGATCCGGTGCTCGGCCCTGGTGGCCCCCGGCGTCGGCGGATATGCCGAGGAC
 ACCCTGCTGGTGGCAGAGAGTACCGTGCTAAAGCCGGAGGAGATCTCGTTCACCGACGCC
 GCCGCGATCCCGGTGCTGCGGGCGAGCGCCTACGCCGGCACTACCAAGTTCGAGCTTGAA
 CCAGGCCAGTCGTTGCTGATCAATGGGGCCGGTGGTGGGGTTCGGGCTGATGGCCGCGCAG
 ATCGGACGGGTCCACAAGTTCAGGTGCTCGGCGTTGACCACGAGGACAAGCGCGAGCTC
 ATCGAATCCACCGGTGCTATCTTCGTCGCCACCGGCGACGCCGTGCGGAGCAGGTGCGT
 GCGCTGCTCCCTGACGGTGTGGACGTAGTCTTCGACCTAGTCGGCGGGGAGGCGTTGCGG
 GTGGTTGCTCCCTTAGCGAAGAATCCGGCGCACGTGATCTCGGCGGCTGATGCTGCCACC
 GTGGGAGAACTCGGTGGACAGGTGCTGCGCCGACCCCGGAAATGGTCGGACAGATCAC
 GGGGTGGTCCAGTACGGGCTGGTTCGACCCGAAGGTGATACGACCTACCCGCTGGAACAG
 GCCGGTAAGGCCCTGGCCACGTTGAGCAGGGCCACGCCCGGCAAGATCGTCTTCGAG
 CTCATCACCTCCAGGAC

>RXN01842-downstream
 TAACCAGACAACGCGGTGACCTC

>RXN01849-upstream

AAAACCTTAAGTTGGGTGGTTAAACCCACTAAGGTCTCACTTTATGGATGTGCCAGGTCA
CACCAAAAAATCTCAAGAAACTCACATTAAAGGACAGTA

>RXN01849

ATGGCGTCACAACAGATCCGCTATCCATTCTCCGCGGTTGTGGGACAAGACGAGCTTCGG
CTTGGCGTTGATCCTCACTGCGATTTCCCCACGCATTGGTGGCGTGGTGATTTCGAGGTGAG
AAGGGTACAGCGAAAACCTACCACTGTGCGTGCTTTTGCTGGTCTTTTAGGTGATGCCCCCT
TTGGTGAACCTGCCTCTCGGATCCACGGAGGATCGTGTGGTGGGTTCCCTCAACATGGAA
ACTGTGTTGACCACCGGCCGTGCGGAATATCAGCCAGGTTTGCTCGCGCAGGCTGATGGC
GGTGTGCTGTATGTCGATGAGGTCAACCTCTTGCGCGATCACCTGGTGGATGCTCTGCTC
GATGCAGCTGCAAGCGGTGCGCTCAGCATTGAGCGTGACGGTATTTTCGCATTCTTCACCA
GCAAACTTTGTGTTGGTGGGCACCATGAATCCGGAGGAAGGCGAGCTGCGCCCCGACGTG
CTGGACCGTTTCGGTTTGGCTGTGGACGTTGCTGCGTCTACGAACCCTGAGGTGCGCGTG
GAGATCATTCGCCGCCGGCTTGATTTTGAAAACGCTCCTGAGCAGTTCATGGCTAAGTGG
GCTGAGCAAGATGCGGACACCTCCAACCGTATTTTGCGCGCTAAGGATTTGCTGCCTGGT
GTGGAGCTGCCGGATCTGATCTTGTGCGCAGATTGCGTGGTTGTGTGCACGTATTGAAGTC
GACGGTATGCGCGCTGACCTGGTGATCACGCGTACCGCACTTGCTCACGCCGCGTGGGCT
GGACGCACTGTGGTTACGGAAGAAGACGTGGAGATCGCAGCTCGCCTAGCGTTGCCGCAC
CGCCGTGCGCGTAATCCTTTTCGATGCTCCAGAAATGGAGGAGCGCAAGCTTCAGGAAACC
CTGCAGGAAGCTCGGGACTTCTTCAAAGACAATGAAGATAAAGGACCTGCCGCCAAGATC
ACCGATGAGGAAACCGGTGCAGAGGCCTTTACCGATACCGACAATCCCACCGAGGAAGAC
GGTCTGCAAGGAACTGCGCAGGCGAAGGCGCAGACTACTGGAAGGTAGGTACTGCCGGA
TCCGGCGACCCCTTTTCGCTCC

>RXN01849-downstream

TAGGCATTTGCGCCTGGCGTCCA

>RXN01868-upstream

TGACAGGCTACCTTCTGGGGTGGACATGATCCCCAACGCTCAACCCACTTGTGGCACCAA
CCACAAACCCTGTGGCGGTAAATCCCCTAGAGTAGGCCAC

>RXN01868

ATGAAGGATCTTTATCGCTTTGTCAATGGCCTGTGGCTTGACACCCACATCATTCCCGAC
GATCGCGCGGTGGACGGCACGTTCCACAAGCTGCGCGATGATGCTGAAGAAGACGTCCAT
GAGATCGTCAAGGAAGACACTGGACGCGCAGGCACACTTTATGCCTCATTATGGATACT
GACGCCATCAACGCTGCTGGTGTGCACCGCTCGATGCGGATCTGAACAGGCTGTCTGTT
GCTAACTCATCGTTTTTTCGAGCTGCTCTCGGCGAACTGGACCGTGAAGGCGTTGGCGCG
CCAGTAGGTTTCTGGGTGGAGAAGGATTCTTCCACGAATCCGTCGCCCTATGTCATC
CAGTCCGGCCTCGGCCTGCCGATGAGGCTTATTACCGCGAGGAGGCACACGCCGAAACT
CTCGCGGCCTACAAAGAGCACGTTGAGCGCATGCTCGGCTACTTGATAACAGCCGCCTC
TTCGGTCTGTGCGCTGCTTCCGCTGCCGCACGAATTGTGCGCCTGGAAACGGAATCGCT
GCTGGCCACTGGGATGTGCTGAAGACCCGCGACGCCGTAGCCACCTACAACCCACCGAA
CTCGGCGCGCTGCCACCAAAGGTCCGCACGCTGCTCAGTTCCGCGAGGCCTCCCGGACCAG
CGCCTGGTATCGATGATGCCGTCATACCTCGACCACCTCAACGGCTTGCTTGTCGACGAC
CGCCTCCCCGATTGGCAGCTATGGGCAACCTGGCACATCTTGAGGTCTCGAGCAGGACTG
TTGACCGAGGAAATTAGCCAAGCAAACCTTCGACTTCTATGGACCAAACCTGTCCGGCGCC
ACCGAGCAAAAAGATCGATGGAAGCGTGCTGTGCGCCTGGCAGAGCGCATGGTGGGCGAG
GAAATCGGGCAACGATTCTGTCGAAAGGCATTTTCTGCAAGCTCCAAGGAGCACATGCTT
GAGCTCGTCGACTACCTGGTTGCCGCTACCGTGATCGCATTTCGAACCTCGAATGGATG
ACGCCCGCCACCCGCGAGCGTGCCCTGGAAAAGTTGGGCAAATTCAACGCGAAAAATCGGC
TACCCCGACAAGTGGCGCTCCTACGAAGGCCTCGAATTCCGGCTCCGACCTGGTGGACAAC
TCCCGCAAGGGCTCCGCGTTCCTCCATGACTATGAGCTGGGCAAGATCGGCAAACCAGCC
GACCGCGACGAATGGGTACCAACCCACAAACCGTCAACGCCTTCTACAACCCCGTGGTC
AACGACATCACTTCCCCGCGAGCCATCCTGCGCGCACCATCTTCGACCCCGAAGCAGAA
GCCGAGAAAACCTTCGGTGCAATCGGTGCTGTGATCGGACACGAAATCGGCCACGGCTTT
GACGATCAAGGCAGCCAATACGACGGCGACGGCAACCTCAACTCCTGGTGGACCGACGAA
GACCGCTCCGCATTCGAGCAGCTCACCTCAGCTTGGTACCCAATTACGCGGACTCGTC
CCTGCCGTCCTGACCTCTGAAGGAATCGACACCGACGGCGTCAACGGTGAATTCACTCTC
GGCGAAAACATCGGTGACCTCGGCGGATTGGGCATCGCTGTGCTTGCTACGAAAAGTAC
CTCGCAGACCGTGGCCAAACCTTTGAAACCTACCAAGTCCAAAAATTCGAAGCAGAAGGC

GCCGAGGAAGGCCTGGCCGAGCAAGAATTCAACGGTCTCCAACGCCTCTTCCTGTCTGG
 GCTCGCGTGTGGCGCACAAAATCCGCCCACAGATGGCCGTCCAATACCTGGCCATCGAC
 CCACACTCCCCTGCAGAATTCGGCTGCAATGTCATCGCCGAAACGTCGCTGAATTCTAC
 GAAGCATTGACGTCCCCGAAGATGCACCTGTGTACATCAAGCCAGAAGAGCGCCTAGCT
 ATCTGG

>RXN01868-downstream
 TAGTTGTTAGTTGGTATTGAAAA

>RXN01885-upstream
 GTGGCGTCGCAGGGATGTTTCCTGCGGCACCATTTTTGCTGAGGTGGAACACGGATTAA
 ACACGGATTTTCTAAGGTTAATCAAGTAAGGTTTACCTT

>RXN01885
 ATGACTACGAAACCTATCATCCCAGAATCAACCCACTCCGCAGAACGTGCTGGTGGACAT
 TGGATCCTTGCCAGGCTTGGAAGAAAGTGCTGCGCCCTGGAGGTGCTGAAACAACGCAG
 TTCCTGCTGGAGAACCTTTCTTTGACCGGTGCTACCGTGGTGAATTTGCTCCAGGACTT
 GCGGTGACTGCACGTGACATCCTTGGAAGGGTCCGGCTCGCTACATCGGAGTGGATAGC
 GACGCGGATGCATGCGCGAATGTACGTGCGATCTTACCTGCTGGTCTCACGAGGTGCGC
 AATACAAATGCCACCGATACTGGCCTTGAAAGCGACTCGTTTGATGTTGTATCGGCGAA
 GCGATGTTGACCATGCAGACCGATAAGCACAAAGTTGGAGCTGATGCGCGAGGCAGCTCGA
 ATTCTGAAACAGGCGGGCTGTACGGCATTCACGAGCTGTGCTGGTGCCTGACAATGTC
 TCCACTGCGGTGAAAGAGGATATTGCTAAGGCGCTGGCTCGTTCCATCAAAGTCAATGCC
 CGCCCCATCACGGTGCCGGAATGGGCTGCGTTGGCGCGTGAGGCAGGGTTGATGTGATT
 AATATTCGCCAAGCCGACATGGCCCTTCTATCCCTCAAGCGAACCTGAAGGATGAAGGG
 CTAAGAGGTGTCTTCACGATTGTGAGGAACGTGATTAGCCAACCGGATCTGCGCAAGCGA
 GTGCTCGGAATGCGAAAGACTTTCACCGAGCATAAAGATCACTTAGGTGCGGTTGGCATC
 ATTTTGCAGAAGAGAGCCCAA

>RXN01885-downstream
 TAGGGATCTGAAATGGAGGGGTG

>RXN01923-upstream
 CCAAAGTGAATACCCCGACTGCAGCAGCGCAAAAGTTCAAGTACTTTGGGATGCAAATCT
 AGTAGCACGTCCCATGTTTCTCACACTCTCAGGAGCTGAC

>RXN01923
 ATGTCTGCACTTATTAAAGGTTTCAAGACCTCATCATGTGGTTGTCTTAAATGGTTGGTTT
 GGTCTGCTGCGGGCTGGGGAGCTTTCGCTGACTATCTTGACCTCGGCAACTACACCTGG
 CACTTTTGGGATTACCGAGGTTACGGCAACAGAAAAGACGACGAGGAGAAATTTACTCTG
 GAGGAAATTTAGCGGATATCGTTGCATACATCGACTCGATTGAGGCAGAAAAGGTTTCC
 ATCCTGGGCCATTCCATGGGTGGAGTGTTTCATGCAGAAAGTCCTTGACAGACAGCGCCACC
 CCCATCGCTTCACTGGTTGGAATTTCTGCCGTTGCTGCAGCTGGAACACCATTCGATGAG
 GATTCTCGGAAGCTTTTACCTCAGCAGGGCACAACCCGGAATCGAGGCGAGCCATCATC
 GATTTACCTCAGGATCTCGCCAACCTGCCGCGTGGTTGGATGATCTCACCAGCTCGGCG
 GTGCAGAATTCACCTCCAGAGGCCGTTGAAAAGTACTTTTTTGGCTGGGCTGATTGTAAT
 TTCGCAGCGGATTTAGGCACCCAAGATTTGCCGTTGGACATTCTACCGGCGATCTCGAC
 CCCGCGGTCACTAAACTGCCGTGGAATCCGCATTTCGGCCCGATCTATCAAATCTGACC
 GTTGAAGAACTCCACGATGTCGGACACTACGCAATTTTCGAGCACCCCTTAGGCCTTGCC
 GCCAGGGTGCTTCGATTTCTCGACGCCGTC

>RXN01923-downstream
 TAGTACTTCCGCAAATTCACCGG

>RXN01963-upstream
 CAGATTTTCTCTGTGTGAGCTGGGGTTTTCTGCATTTCCCACTTGTTTTTCTCCAACACT
 CCACACACACACCTTCAAAGAAGAAAGTTTCGAAAGATTCT

>RXN01963

ATGAAAAACCGTAAAAAATCATGTCTACCCTCACCCTGTCTGCGCCGTACTGGGTATA
GTTGCAGCTCATCCATTCCACGCCTCTGCTGTATCGGCGGCTCTGTCCCATCAACTGAT
TCCGTTGCCAACGCTGTGCAAAAAATCGGACCAGGCGCATTGAACTGCAGCGGTGTCATG
ATCTCACCATCGTGGGCACTCACCGCACGCCACTGTGTGATGACATCAACATACTCGGC
GACATCGACACCATCACGCCTATTACTCCAGGTATTCATCGCAATGAAGGTAACATATG
GGTGAGGTTTACCGCGCACCGTCCGGTGATCTAGCGCTCATTAATATCAACGGCGTGCAC
AAGGGCACCATTGCGCAGCTCCCCACACAAGAATATCCACTGGGAACCGCTGCACAGTCA
GTCGGTTTTGGTGGCGGTGGTGTCAATATCCGCACCGCTGAATCGGTCAACATGATTCTC
ACCGACATATATAGCGTGAGGTGAGGGAAATTCATCACGGTGTGGTTCGATCACACTAT
CTCCTCTTTGATTATGACAGTGCTGAACTGGTTCGAATCCACAAAGGTGATTCTGGGGGC
CCCATCTTCATTGGTGACGAGGTTGTGGGCATTATGTCTCACGGCACAAATAAAGAAC
GACGGGTCTTTTGATGACGAATCC

>RXN01974-upstream

ACAATATTTACGGGGATAATCTGCATTAACAAATTAGTTAATAAAGTGTAGTATTTAATT
AATTATTAAATTCAATTAACCTTTTTTGTAAAGGTGGGAAG

>RXN01974

ATGACCCAGGTTGTGGCGGGTACGTTGGTGGGAGAGTCGATTAATCGTGAGATTGATGAA
GACAAGTACCCTTATTTGAGCTCGTATGCAGCGCCTGTTGCTGTACCGGTGCGTGAGATT
ATTGGGCGCGAAGAAGAAGTCAATAAGATTATGGCCGCGCTGATGCGTCCAGAGATTTCT
AATGTCATGCTTGTGGGTCTGCTGGTTCGGGTAAACTACGTTGGTACAGCAAGCACTG
GTGAAAGATCCAGAGCGTAACATACATCGAGGTGATGTAGCGAAAATGGTTGCGGATTTG
AGCACCCCGGCGCAAATGGCTGCGCGTATTAAAGGTGTGTTTGAGGACGCCATTGCCTAT
CGCAAGCACGAAGGTCATGAATTGGTGCTGTTTCGTTGATGAGTTTCACCAAATTTGTCAG
CTGTCTAATGCTGCGGTAGAGGCAATCAAGCCGATTTTGGCGATGTCTGGTGTCTTGGT
GTGCGCGTTATCGCTGCGACAACCTCTCGAAGAATTTACGAACACATCAGGCCGAACCAA
GCATTGACGGAGCGTTTGCAGGAAATTCGACTAACGCCGACCGATCAGAAGACCACTGTG
GCGATTTTTCGCTGGTATGGCAGATCGTTATGGCGTAAGTGATCAGTTCTATGACGACCAC
GTTTTTGTAGCAGATTTACTCCACCACTGAGCGTTTTATGCCGAGTTCTGTCCAGCCTCGT
AAATCCATTTCGTGTCTTGTATGCGATGGTTGGTGGCATCGACTTTCGGCAAGCCGATG
GATATGGATCTGCTCGGTGATGTGCTCCACGATGCTATTGGTGTGATATTGCATTCAAG
GTCGATGGTACGAGCATTAAAGACAAGCTTGATGAGAAGGTAATGGCGCAAAGTCTTGCC
ACCACTGTGGTAGCACGTCGTTTGCAGCTGGTGGTGGCGGATCTTCATGATAAATCACGG
CCACTGTGCAACTTCTTGTTCACCGGGCCTACTGGTGTGCGGTAAAACAGAGCTGGTCAAG
CAACTAGCACGGGTGCTCTTGGTGATGACACTGGGCGATTGATTTCGTTTTGACATGTCA
GAGTTTCGCCTTAGAATCAAGTCTTGACCTTTTCAGGTCTGAGCTCACTCGTCTGTCTGCT
GACCAGGGTAACGCTATTGTCTGCTCGATGAGGTTGAGAAAGCTGATCGAGCTATTGCG
CGGTTGTTACTGCAGGTAATGATGATGGCCGACTATCTGACGATTACAACCGTGAGGTG
AGTTTTCTTAATACCTATATCGTCATGACAATAACGCTGGTCTGAGATTTTCGAGACA
ATTTGCAACTATGCCACTGATGACACGGGCGATGGTGGGCGATCAAAGACTTTGTGAAA
AACATTACACGTCGATCAAGAATAAGGGTTTTCCACCTGAGCTTCTTGGTCTGTAGAT
GAAATTGTGCCTTTTCAACCGCTGTCCGAGACGACACAGGACAGGATTATTAGCAAGAAG
CTGCAGGATGTGGCTACTGAGGTCTATGAACGCCACGGCGTGAACTGCACTGTTCAAA
AAGGTTATGGAGTTTCTGCTTGTGGATCAGGTGGAGGAAAGTGTGAATCTGGTGGTGCC
CGTGGTGCGGTGCGGTCTTTGCAGCGGGAAGTGGTCACTGAAGTGGCGACCTTTATTAAT
ACCTACCCAGAAGTGCGTGACATTTACGTTGATGTGATGGTTCAGATGCGTAATAAGACT
AACCGTGTGTCTACGGCCCGTGTGGTGATAAAGCGTGTGCAAGGT

>RXN01974-downstream

TAATTACTCTGGGGTTCGCTTAAA

>RXN01993-upstream

CTTTAGGAGTTCACC

>RXN01993

ATGACACTGTCCGAACGCAAGCTCACCACCACCGCCAAGATTCTTCCCCACCCACTCAAC
GCCTGGTACGTCGCCGCTTGGGATTATGAAGTCACATCTAAAAAGCCCATGGCCAGGACA

ATCGCCAACAAACCACTCGCTTTGTACCGCACCAAGATGGCCGAGCCGTTGCCCTTGCA
 GACGCCTGCTGGCACCGCCTCGCACCGCTATCCAAGGGAAAACCTCGTGGGCACAGACGGA
 ATCCAATGCCCTTATCACGGCTTGAGTACAACCTCCGCGGGCCGCTGCATGAAAATGCCC
 CGCGAGGAAACCCCTCAACCCGTCAGCAGCCGTCAACTCCTACCCCGTGGTGGAAGCCCAC
 CGCTTTGTGTGGGTGTGGCTGGGCGATCCACATTGGCAGATCCCACCAAGTACCCGAT
 ATGCACCAGATGAGCCACCCGAATGGGCAGGCGATGGACGCACCATCTCCGCTGACTGC
 AACTACCAATTAGTGCTGGACAACCTTGATGGACCTCACCCACGAAGAGTTTCGTGCACTCC
 TCCAGCATCGGACAAGACGAACCTTAGTGAATCAGAGTTTCGTGGTCACCCACACTGAAGAT
 TCCGTGACGGTCACCCGCTGGATGCATGACATAGATGCACCACCGTTTTTGGCAAAAGAAC
 ATGAATGATAAGTTCCAGGATTTGAAGGCAAGGTGGATCGTTGGCAGATCATCCACTAC
 TACTACCCTTCCACCATCTGCATTGATGTTGGTGTAGCAAAGGCTGGAAGTGGCGCGCAG
 GAAGGCGACCGCAGCCAGGGCGTTAATGGGTATGTCATGAACACCATTACCCAGATTCA
 GATCGTTTCTCTCATTACTTCTGGGCATTTCATGCGCAACTACCGCCTGGAAAGCCAAACC
 ATCACCACCCAGCTCGCGACGGTGTATCCGGTGTATTCAAAGAAGACGAAGACATGCTG
 ACCGCTCAGCAAGATGCCATCGACGCCAACACCGACTACGAGTTTTACAGCCTCAACATT
 GATGCCGGTGGCATGTGGGTGCGCCGAATCCTCGAGGAAGCACTCTCCAAGGAAGGCCGA
 CTGGATATCCCCACCACATTCCCCCGCGCAACACCGAAGCCGGAGGCA

>RXN01993-downstream
 TAAACCATGAACTCGCAATGGCA

>RXN01997-upstream
 AAAAAGGTGGGAAACTTAGCCAATCCAAAGCCCCAAAATGCGGGTTATGCTGCGCTAACC
 TATGCTGACAGCCTTGCGGAAGTTGTGTACGTTAGGGGCC

>RXN01997
 ATGACAATCAACGAGAAGATCGCATCAGCTTTCAACAACCAAGTGAAGTGCAGAGCTTGAA
 GCTTCAATGGTGTACCTTCAGCTCTCCTACGTTCTAGACGATCTGGGCTCACCGGCATG
 CGCGACTGGATGAAGGCACAGAGCAAAGAAGAGCTCGAACACGCACAGAAGTTTCGCTCAG
 CACCTTCTTGACCGTGACTACACCCACAGATCGGTGACATTGCACCACCAAGCTTGAT
 GTCACCTCCGCTATCGAGGCTTTTCGAGGCTTCCCTGGCACACGAGCAGAAGATCTCCGCG
 CTGATCCGCGAGCTCGCTGCCATCCAGGACGCTGAGAAGGACTACGATTCCCGCGCACTG
 ATCGACTGGTTTCTCAACGAGCAGATCGAAGAAGAAGCAACCGTCGGCGAGATCATCGAC
 CGCTCCGTATCGCTGGTGATTCCGGTTCCGGAATCCTGCGCATCGACGGCGAAGTCCGGC
 TCCCCG

>RXN01997-downstream
 TAAATTCCCCGCAGTTTTTAATG

>RXN02001-upstream
 GCGGTTTCGTCATGGATAAGGACTGTGTTGCGGACCATTGCGATACTCGTGTCAAAGGC
 GATAGTCCAGCATAGACCGTGCTTTATCGAAGGTGAACCC

>RXN02001
 ATGCCCCGTTATCAATAGTATCGCCAGTTTTTCCGACGAGATGACCCGCTGGCGGCGTCAC
 CTGCATCAAAACCCCGAAATCAGCTTTGATTGTGTGGAACTGCGGCCTTCGTGGCCGAG
 CAGCTGCGCAGCTTCGGGGTGGATGAAATTCACACCGGCATCGCGAAAACCGGTATCATC
 GCCCTGATTACGGGCGCGAGGCTGGCCCGTCGTCGGCCTGCGCGCCGATATGGACGCG
 CTGCCGCTGACCGAGATTACCGGCGTCGACTATGCCTCGACCACCCCGGAAAAATGCAC
 GCCTGCGGCCACGACGGCCACACGACCATGCTGCTGGGCGCCGCCAAATATCTGGCCGAG
 ACGCGCAATTTTCGAGGTACCGTCGCGCTGATCTTCCAGCCTGCGGAAGAAAACGGCGGC
 GCGCGGGCGTTATGGTCGATGAAGGCGTCTCGACCGCTTTGCCATCGCCGAAGTCTAC
 GCCCTGCACAACAGCCCGGCCTGCCGCTTGCCATTTTATGACGACAGCCGGCCCGATC
 ATGGCCGCTGTCGACACGTTTCGACATCAACATTACCGGACGCGGCGGCCACGGTGCCAAA
 CCGCACCAAAACCCGCGACCCCATCGTCGACCGCTCGGAATTGTCCAAGCGTTTCAAACG
 ATAGTCAGCCGGAATCACAATCCGGTCGAGGACCTTGTGCTGTCGGTCACGCAATCCAC
 ACCGGCAGCGCCGATAATATCATCCCCGAACCCGCTATATCAACGGCACTGTCCGCACC
 TTCAACAAAGACGTGCAGGCCATGGTCATCACGCGGATGGAAGAAATCGTCGCGGGCCAA
 GCTGCAGCCTATGGGGTCGAGGCGACGCTGACCTACAACCGCAACTATCCCGCCACCATT

AACGACGCCGCCAAAGCCGCCATCGCTGCCGAAGTCGCGGGCGAGGTCGGCCTCGGGGTG
 AACCCGAACGGCTCGCGCGGGATGGGGGCCGAGGATTTCTCGTATTTCTCGAAAAGCGC
 CCGGGTGCCTACCTGTTTCGTTCGGTAATGGCGACAGCGCGGGCCTTCACAACCCCGCTAT
 AATTTCAACGACGAGGCCGCGCCCTACGGCGCATCGTTCTTGGCCCGCATGGCAGAACGC
 CCCTTGCCGTTAAAGGGC

>RXN02001-downstream
 TGATCCATGGCGCTCGAAGATGC

>RXN02053-upstream
 AACCAGCCAGAACTATCTCCAAAAGCTAATAAAACCCTTGCACTGACAAATAAGGCGAC
 CTACCATGACTCTGTTTCCAACACATAAAAAGGATAAAAA

>RXN02053
 ATGTCACTTTTCAGTCGTTCGAGGCGATTACCAACCGCCGCGCCACCCGCAAATACACCGAT
 GAAGCTCCTACCCCTGAGCTGATCGACAAAATCGTTGACCTTGCCCTGGAGGCACCCAGT
 GCGTTCAATGCGCAGCAACGTGAAATTGTTGTGATTACTGATCCCGCACAGAAGCAGAAG
 CTTTACGAGGCCTCCCATCAGAAACAATTCCTCACCGCACCTGTAACCTTTCATTGCGGTT
 GCCCGCGTGGAAAACGAGCCTGAGGATTTGGAAGAGATTCTTGGTACGGAAAGGGCTGAA
 CGTGTGCGGGGATTCATCAACGGTCGCAGCATTTCAGCAGGCACGCGAAGCAACGTTGAGG
 GATGCCAGCCTCGCGGCGGCTTTTCTAATTCTGGCTGCCAGGCGGAGGGTTTGAGTACC
 AGCCCGACTACTGGTTGGGATGAGGAAAAAGTGAAGGAAGCAATCGGTCTCGGCGGGCGT
 GAGGATCGTGCAATCGCCCTTGTTATTGCTACCGGATTCCCTAATGAACAGCCGGAGCAC
 CCTGGTCGTTTGAGAATAGGCGCATCGACAACAGCTAC

>RXN02053-downstream
 TAACTCTGCCAGCTCGCCCGGAC

>RXN02146-upstream
 GGTTCCTCTCGCAGAGAGAGAAGGAGTGGGGATAGGGGCCTTCCGCTCCGAACCCGACAGC
 TAACTCGGTTCAGCAAACAGGAAGAATTTGGAGTTTCATCA

>RXN02146
 GTGGGTAAGCACCGTCGCAACAATTCAAACGCAACTCGCAAGGCTGTAGCAGCATCTGCA
 GTTGCGCTTGAGCAACCGCAGCTATCGCCTCCCCAGCACAGGCAGCTGAGGTTGTTGTT
 CCTGGCACCGGAATCAGCGTTGACATCGCTGGCATCGAGACCACTCCAGGTCTTAACAAC
 GTTCCAGGAATCGATCAGTGGATCCCTTCCCTTAGCAGCCAGGCAGCTCCTACTGCTTAC
 GCAGCCGTTCATTGATGCACCTGCAGCACAGGCTGCACCTGCAGCAAGCACCGGTCAGGCA
 ATCGTTGATGCAGCGCGCACCAAGATTGGTTCCCATACGGTTGGGGTGCTACCGGTCCT
 AACGCTTTTCGACTGCTCCGGCCTTACCTCATGGGCATACAGCCAGGTTGGCAAGTCCATC
 CCACGTACCTCCCAGGCTCAGGCTGCACAGGGCACCCCTGTTGCTTACTCTGACCTTCAG
 GCTGGCGACATCGTTGCGTTCTACTCCGGCGCTACCCACGTTGGTATCTACTCCGGCCAC
 GGCACCGTTATCCACGCACTGAACAGCAGCACCCCTCTGTCTGAGCACTCCTTGATTAC
 ATGCCATTCCACTCTGCAGTTTCGTTTC

>RXN02146-downstream
 TAATCTGCATAAAGTCTTAAGCT

>RXN02274-upstream
 ACAGGTGCAAGCTGCTGAACGTGGCCGGAACCTAGATGACGCCACTGATGTGGACACAAA
 TGTGGGCACAGAAGAAGGCTTTGAAGAAGGTCGAAATTAA

>RXN02274
 ATGAGTTTTGAGATTTCCCGCAAGCAGTACACCGACCTTTATGGTCCAACCGTTGGCGAT
 TCAGTACGTCTTGCTGATACTGAGCTTTTTCTCTGTGTGGAAAAAGATTACGCAGCAATC
 GGCGAAGAAGTAGCATTTCGGCGGTGGCAAGGTCATTTCGTGATGGCATGGGCCAAAAATGGC
 ACCTTGGTTTCGCGATGTAGATATTCCCGATACCGTCATCACCAACGTCATCGTCCCTTGAC
 TATACGGGTGTGTACAAAGCTGACGTTGCGCTTCGAGATGGCAAAATCTTCCGAATCGGA

AAGGCCGGAAACCCGAATGTCATGGAAAACGTCGACATCGTCATCGGCGTTGCCACCGAC
ATCATTGCTGGTGAAGGCAAAATCCTTACCGCAGGTGGCATCGACACGCACGTGCACTTC
TTGGGCACAGACAGGTCAACACTGCATTAGCATCAGGTATCACCACGATGATCGGTGGA
GGCACCGGCCCAAGCCAGGCGTCGATGGCTACAACGTGTCACGCCAGGTGAGTGAATACC
TACAACATGCTTAGTGCTTTTGAAGGCATGCCCATGAACCTTGGCATTTTGGGTAAAGGC
CATGGTTCTTCAAATCTCCGCTGGCTGAGCAGGTTCTGTCGGGTGCAATCGGTCTGAAA
ATTACGAGGACTGGGGTGCCACACCATCGTCGATCAACACTGCCCTAGAAGTAGCCGAT
GACATGGACATCCAGGTGGCACTCCACTCCGATACCTTGAATGAGGCCGGTTTTGTGGAA
GACACCATTGAAGCCATTGCGGGCCGAGTCATCCATACCTTCCACACCGAAGGTGCTGGT
GGTGGACACGCTCCTGACCTAATCCGAGTGGCTGCTCTGCCAAACGTGTTGCCTGCATCC
ACCAACCCAACGCTCCCATACACCCGAAACACTGTTGAAGAGCACCTGGACATGGTGATG
GTTGCCACCACTCAACCCAGATATTCCAGAAGACGTGGCTTTTGGCGATTCCCGAATT
CGTGGCGAAACGATTGCAGCCGAAGATGTGCTTACGATATGGGTATCTTCTCTATCACC
TCTTCGGATTCCAGGCGATGGGCCGAGTAGGAGAGACCATCACGCGCACGTGGCAGGTC
GCCGACCATATGAAACGCACCCGTGGATCACTAACGGGAGATGCTCCATACAACGACAAC
AACCGCTTGCCTCGATTTCATCGAAAATACACCATCAACCCTGCGATTGCGCACGGTGTG
GATTATGTTGTTCTGTTGAGTGGAGGAAGGCAAGTTCGCTGACCTCGTGCTGTGGGATCCA
AAGTTCTTTGGTGTGAAACCTGATCTGGTGATCAAGGGTGGGTTGATGGTCAATTCCCTC
ATGGGTGATTCCAACGGTTCCATTCCAACCTCCGAGCCCCGACCCCTGCGCAATACTTGG
GGTGCCTTTGGCCAGGCGAGTTTCCAGAAGCTCCATTACATTCTATCCCAGGACGCTATC
GATGCAAATGTTCTGATCTGCTGAATCTGAGGAAGCAGATCCGGGGCGTTCGAGGTGTA
AGGAATCTGACCAAACGAGACATGAACTCAATGCAGAAATGCCTGATATTCGTGTGAT
CCAGAGACTACCAAGGTGTTTGTCAACGGTGAGTTGATCACCAGCAAGCCAGCAGAGACA
GTGCCAATGGCACGTCGCTACTTCTTGTTT

>RXN02274-downstream
TAATCCGCCAACAAGGAAGGAAG

>RXN02334
GTCAAAGACCTCAACGATCCCCCTACCCGCGATTTTCATTGACGGTGAAGCTTTGCTGAG
CTGATGAACCGCAAGGGCATCGCTCGCGATGACACCGTTGTTGTCTACGGTGACAAGTCC
AACTGGTGGGCTGCGTTACCCCTGTGGGTCTTCAACTGTTGCGCCACTCCGATGTCCGC
CTGCTCAACGGCGCGCGACGCGTGGATGGCTGAAGAGCGCGACACCTCTACGTGGTT
CCGGAGTACCCCTCCGCCAACTACCCCGTCTGAGGCGTGTGACGAAAACAGCGCGCG
TTCGTGGCTGAGGTGCTCGGTTGCTCACGCAATCCGGTGGCATGACGCTTGTGACGTC
AGGACCCCTTCGGAGTTCTCCGGATTGGATGAGCACGGCAACCCAACCTCAAACACCGGC
GTGCTTCGTGGTGGACACATCCAGGCGCGATCAACCTGGATTGGTGGACGCTGTTCTT
CCCAACGGAACTTCCGCACCCGTGCAGAGTTGGACAAGCTCTACGCCGATCTCAACCCA
GCTGACGATACCGTTGTCTACTGCCAGGTTGGCGACCGCGCGGCCACACCTGGTTGCTG
CTGAAGTATCTGCTCGGTTTCAACAACGTCGAAACTATGACGGATCGTGGGCAGAAATGG
GGCAATATGGTTCGCATGCCGATCGAAACTGGCGAAAACACCAAAAATAACGTTTCCGTTG
TCA

>RXN02334-downstream
TAGAATAGGCGTATCCCCTTTTT

>RXN02478-upstream
GACATCGTCGAAGCGCTCTCCAGCGGCAACATCGACGATTATCGCAGCGCCGTGCTCGCT
CACTACGCGCCGTTTCGCCGATGATTTCCAACATGCTCG

>RXN02478
ATGCGCACTAGCCTCATTGCGCGCGGGTTGTACCGCATTCGCCGCTGGTCTGGGATCAG
GGTCTTTTAAACGCTTTTCGACGCCCGCCTCAGTGTGACGACCTCCCGCACCCATCGAC
GTGGTGTGACGCGATCCTCAGACGGCATCACCTGGACCACCCAGAACCAGCAATCGTC
GAACTGAACACCGCGGTGTGGGCGATGTCTGCCTTGTACGGGCGATCTGTGCTTCCAC
GGATTGTCAAACCTCGCAGGATTTTTTGAAGATCCACCGACCTTGAACCCGGCTGGCG
CGCCGGGATGTGAGTGGGTGGACGTCGATAAGCATGGCCCACTATTTGCGGATGTTGAT
GCCGCGTTTCGCTCGTGGGGACGGGACTTGTCTGCGGATGGGCGGTGGATTAGAGT
TTTGTGGTGGCGCGGGGCGGAGATTTGCTTCGGATTCTGCGCAGCGATGGCCACATC

ACCGATATTGCCGGCGGTAACGAATCCGCGATGACGCAGCTGCCGAGCGGTCCGATTGTG
 CTGCATTCCAGGGGGGTGGGACACCGTCTGAGCAGTGTGTCCGATGATTTCCGGGAGACA
 TTCCTCCGCTGGAGCCTGTGCCTGAACTAATCGACCCCGGCTGCAACGGCCACGTGTTT
 TACTGGAAGCGGCTGGAATGCTCGCCGCAACGCACCTGGCGGACCCTGATCTGCGACGC
 CACTTGGTGGTTGATTTATCCAGCGACGAAGGAGCGACCTGGGCGCATCGCATCACCATC
 GAGCGCGAAGAAGCGCCCTATTCAACCGCTGCGGAAATGCCAACGGAGATGTTGCCGTG
 GTGTGGGAAGCAGAGGGAACGCGCGGATAAAATGCACGGTGATCAGCGTAAATGATATT
 TCGCTGCGGATCGATGAGCCCATTTCCGATGCCATATCCCTCCGCCATGTGGTGATCAAC
 GATGACCATGACGGCATCGAAGTCGCACTGCCTGACGCATCGCAATGGGGTGAAGGTGTA
 TTCAAATTTGTGTCCAATCCAGACGCGAGCACCCAAAAAATCCGCACTCGAGGCAAGCCC
 GCGCGACAGACCCTGGAAATTTGGGGATGAATTGGTTTTTATATCCGCAAGGGTGGAGAA
 GTGGCTTACGGCGTCACGGTTCCTTATGATGGTCGCTCGTTGGGGGAAGTTAAACAGGAT
 TTTGGAGTGGGGCTG

>RXN02478-downstream
 TAGAGGCCGATTTGCGGTCCCTT

>RXN02508-upstream
 TGCACACTGCTGGTGGTGAGGCCGAGACCTGGCAGCCGCAAGCAAAGCCTCCGAGGCC
 AACTCGCGCTCAGTAAACCAAAGGAATCTTTGACCAC

>RXN02508
 ATGCGTACATCCATTGCCACTGTTTGTGTTCGGAACTCTTGCTGAAAAGCTGCGCGCA
 GCTGCAGATGCTGGATTGATGGTGTGAAATCTTCGAGCAGGACTTGGTGGTTTCCCCG
 CATTCGGCAGAGCAGATTTCGTAGCGGGCTCAGGATTTGGGATTAACCTGGATCTGTTT
 CAGCCGTTTCGAGATTTCAAGGTGTGGAAGAAGAGCAGTTTCTGAAGAATCTGCACCGC
 TTGGAAGAGAAGTTCAAGCTGATGAACAGGCTTGGCATTGAGATGATCTTGTGTGTTC
 AATGTGGGCACCGCGACCATCAATGATGATGACCTTTTCGTGGAGCAGTTGCATCGTGCA
 GCAGATTTGGCTGAGAAGTACAACGTCAAGATTGCTTATGAAGCGTTGGCGTGGGGCAAG
 TTTGTCAATGATTTTGAAGCATGCGCATGCACTTGTGGAGAAGGTGAATCACAAGGCGCTG
 GGAACCTGCTTGGATACGTTCCATATTCTTTCCCGTGGTTGGGAAACCGACGAGGTGGAG
 AACATCCCTGCGGAGAAGATCTTCTTTGTTTTCAGTTAGCGGATGCGCCGAAGCTGAGCATG
 GACATTTTGTCTGCTGCGTCCGCTCACCACCGTGTTCCTTGGTGAAGGCGATTTCGATCTG
 GTGAAATTCATGGTTTCTTGGCCAAGACGGGTTATGATGGCCCGATTCTTTGGAGATC
 TTCAACGATTCTTCCGCAAGGCGGAGGTTGGTTCGACCGCGATTGATGGGTGCGTTCT
 TTGCGTTGGTTGGAAGATCAGACCTGGCATGCGCTAAATGCTGAGGATCGTCCAAGCGCT
 CTTGAACTGCGTGCACTTCTTGGGTGAGGTCGCGGAACCTGAGGGTGTGATTTTATTGAGATC
 GCCACTGGACGTTTGGGTGAGACCATTCGGGTTCTTCATCAATTGGGTTCGCGTTGGGT
 GGTTCATCACTGCAGTAAGCAGGATTACCAGGTATGGACCCAGGGCGATGTGCGCATTTGTG
 GTGTGTGATCGTGGGGTCACCGGGGCTCCAACCACGATCTCTGCGATGGGCTTTGACACC
 CCCGATCCAGAAGCTGCTCATGCCGTGCGGAATTGCTGCGGGCTCAGACAATTGATCGT
 CCCACATCGAGGGCGAAGTTGACCTAAAGGTGTGTACGCACCGGATGGGGTGGAGCTG
 TTTTTCGCGGGGCGAGCCCCGATGGAATGCCCGAGTGGCTGCCGGAATTCGCGCTCGAA
 AAGCAAGAAGCTGGTCTCATTGAAGCCATCGACCACGTCAATTTCCGCCAGCCGTGGCAA
 CATTTTGTGAGGCGAGTGTGTTTTACACCGCGCTGATGGCGTTGGAGACTGTGCGTGAG
 GATGAGTTCCCGAGCCCAATTGGTTTGGTTCGCAATCAGGTGATGCGTTCCGCCAATGAT
 GCGGTGCGGTTGCTGCTCAGCGTGGCGCCGAGGACGGTGAGCAGGGAGATTTCTCAAC
 GCGGCCTACCCGGAGCACATTGCGTTGGCCACGGCGGACATCGTGGCGGTGGCTGAACGT
 GCGCGCAAACGAGGCTGGATTCTTGGCCGTCCAGAGAATTACTACGACGATGTGCAG
 GCGCGTTTTGATTTGCCGAGGAATTCTTGGACACACTCAAGGAAAACCACTGCTTTAC
 GACCGCGACGAGAACGGCGAATTCTTCCACTTTTACACCCGACGTTGGGCACGCTGTTT
 TTCGAAGTGTGGAACGCGCGGCTTTTTCAGGTTGGGGCGAAACAAACGCTCCGGTG
 CGGTTGGCGGCGCAGTATCGTGAGGTGCGGGACCTCGAGCGGGGAATCCCAAAC

>RXN02508-downstream
 TAGCATCCCGAACTAGCCCCCA

>RXN02513-upstream
 ACAGCACCGTTTTGTAGGATAAGAAAATCCCGCACACAACCCGTCTTGGTGGGTGAAGTG

GGGGAGGCATGTCTATGCCCCCAATTAGACATCTGACATC

>RXN02513

ATGCTTCCAATCTGGATGGGTCTTCCATTCAAGAAAGCAGGTGCTTTGTCTCGGCGTAAA
GCAGTATTCTCAGCGCTTGGTGCAGCCGCACTCATGGGCGCAGCACTACCCACCATCCCCA
ACGGCCCAAGCTCAAACACCCACGGGCTACGGATTTCGATGCAACAGCAAGCATCAGCGAA
GAACCAGAGTTTTCAACACAACAACCTCGCTGACGGCGGAACCTCTCGGATTTGATTGCTAC
CGCATCCCATCGCTTGGCGTGCACCCAAACGGCAACGTCCTCGCATCGTGGGATGGTTCGC
CCAAACAACCTGTTTCAGATGCTCCACAACCCAACTCCATCGTGGGCAAGGTATCGACCGAC
AACGGAGCAACCTGGGGCGAACAGCACGACATTTCCGCAGGTATCACCGCCGAACCCAAA
ACTGGCTATTCCGATCCCAGCATCGTTGTGGACTGGGAGAGGGGGCGATGTCTTTAACTTC
CACGTGAAGTCATTTCGATGCAGGATACTTACCTCCCAACCAGGCACGGACCCGGATGAT
CGCAACGTTGCCCATGTTGCCTACGCCAAATCATCAGATAACGGCTCAACCTGGGTGCA
GACACCGTCATTACTGATCAAGTGGTTGCTCATGACACCTGGGACAGCCGATTTGCCACA
TCCGGAACGGCATCCAACCTGCAATACGGCGCGTACAAGGGACGATTGGTCCAGCCATCG
GTAACCTCGCATG

>RXN02530-upstream

GAGGCTGAGCTTTCCGTCAAACAACATCTTCCCAATGTGGATGAAATGACTGTGACCATC
ACCCCTTCCAAACCTTGAGTCCCGTGATACAATTGTTGAT

>RXN02530

ATGTCAACAATTATGAAGCAATCATCATTGGAGCAGGTGAGGCTGGACTCGCGGCGGGC
CATGAACCTTTCCCGCCGCGGTTTCACTCCCGGAAAAGATTTTCTCGTCTCGATTCCAAC
GACGGGCCCCGGTGGCGCCTGGCGGCATAGGTGGGATTCACTCACATTAGGTAAAGCCAC
GGAATCGCCGATCTCCAGGGCTTCCCATGAATCGCCCCGATCCGAAAACCTCCGGCTTCC
ACATTGGTTGCTGGTTATTACGGCGCTTACGAGAACGAGTTCTCCTTCGCAGTTGTGCGC
CCAGTCAAAGTCTCACGAGTTGAGCCCACTTCCGAGGATCCTTCGAGCCCATTGCGCGTG
AGCAGCGACGATGGTTCGAGAGTGGATTACCCGCATGGTTCTTAATGCAACAGGTACGTGG
ACAAACCCCTTATGTTCCGTACATTCTTGGCATCGATAAATTCCAGGGCAAGCAGCTCCAC
ACCGTTAATTACCGCAAGGCCGAGGATTTCAAAGGTAAGAAAAGTCTTGGTCTGTCGGCGGT
GGTTTGAGTGCTGTGCAATTTCTGCTGGAGTTGGAAGGCTTGGCGGAAACCACTGGGCG
ACGCGTCTGTCGCGAACTTACGCAGCGCGAGTTTCGACGCGCGCTGGGGCATTGCGGT

>RXN02530-downstream

TGAGCGCGCCGTCCGCGAACGCA

>RXN02565-upstream

GGAAATTCGATACAGTGCGATGACGCGATATTAGAAAGAAAAAGATGCGCTTTACGACGA
AACCCTCACCTCCTTCAGGAACCTTATCCGCAACGCCTGC

>RXN02565

GTGAATGATCTAACCCAGATTTCAGGTCAGGAAATTAGAAACGCGGAAAGCCTAGAACGT
TTCTTTGAAGGAACCCCAACGTTAAAATCACCAAGCTGGAACCGCATCCGGGCGCGGACC
TCAATTATCGTGACTGTTCCAGGCAGCGATCCAGATGCTGAGCCTTTAACTGCTTGGGA
CATACTGATGTTGTGCCTGTTGATCTGCCTAAATGGACTAAAGATCCATTCCGTGCGGAG
ATTTCCGATGGACAGATTGGGGTAGAGGGTCCGTCGATATGCTCTTTATTACCGCAACC
CAAGCGGCCGTACCCGTCAGTAGCCCGTGAAGGCGGCCTGCGTGGCACGCTGACATTTC
GTTGGCGTTGCTGATGAGGAAGCCCGCGGCGGACTCGGAGCGAAGTGGCTTTCCGAAGAA
CACCAAAACCTCTTCAGCTGGAAAACTGCCTCTCCGAATCCGGTGGATCGCACCTTCCA
GTCCACGACGGCAGCGACGAGTAGTAATTAACGTTGGAGAAAAAGGTGCAGCTCAACGT
CGTATTCACGTCAATGGCGATGCTGGTCATGGTTCCATTCTTTTCGACCGTGACAGCGCT
ATTGTCAAGATCGGTGAAGTCGCCCGCCGAATCGCTGCCGCGGATCTGAAGGTAGCCAAG
GACGATATCTGGCAAGGCTTCGTCCAAGCGCACCGTTTCGACCCAGAAACGGAGCAGGCG
CTTCTTAGCGGGACCTCCCCTGAGGCCTACGCAGAGTTTCGGCGGACTCTCCCGCTTCGCC
CACGCGGTGTCTCATCTCACGATCGCCCAACTGTGGTTCGTGCAGGTCAAGCCATCAAT
GTATTGCCATCGCATGCGTACTTGGAACTGGATATCCGTACCCCTCCAGGCCAAACCAAT
GACTATGTTGATGACACCCCTGCGTGCTGCTGGGCGATCTTGCCGATGAAGTAGAAATC
GAACACCTCATCTCTGAAGAAGCAACGGTGAGCCCAACTGATTCCAGGTTGTATAACACC

TTGGAAAAAGTTCTTGGTGATTTCTTCCCCGATGCGCCTGTGGTCCCAATTATTTCTCT
GGTGGCTCTGACCTGCGCTTTGGTTCGTCGACTAGGCGGTGTTGGTTATGGTTTTGCAGTT
CATGCACGTGAACGAACCTTTGGCGGAAGCAATGGGGCAACTTCACTCCCATGACGAGGCG
CTGTACCTGGAAGATCTTGAAGTACTGTTTCGGGGTTATGACTCCGTTCGTGCGTGAATTC
CTAGGC

>RXN02565-downstream
TAAAAACATGAAGCAGGAGTCTT

>RXN02589-upstream
GCCTAAATTGCAGCGAGAGGTCTAAAAGGTAGTGCTCTAGGGATTTCATCCAACTCACGA
ATATTGAAGTTTTAAAGTTGAACAGGAAAAATAACAAATA

>RXN02589
ATGTCTATTTCTGATAATTCCCGCGATCAATTAGGAGAACTGCCAGCTGGTCGGCCTCTC
CAATCCGATTTTTGATAATGACCTCGACTACCCACGTCTAGGCAGTGTCACGTTTAGGCGT
GGCACCCCTCACTGAAAACCAGCAAACCATGTGGGATGAAAAGTGGCCTGAACTGGGTTCGC
GTCCTCGAAGATGAGCTGATTGATGTTGATGCGTGGTTTCGGGCGCGAAGGCGCAAAAAACC
ATCGTAGAGATCGGCTCTGGCACTGGAACCTTCGACTGCTGCCATGGCTCCACTTGAGGCT
GATACCAACATTGTGCGCGTCGAACTATACAAGCCGGGCTTGGCCAAGTTGATGGGCTCT
GTTGTCCGTGGAGAGATCGACAACGTGCGCATGGTCCGCGGAGACGGCATCGAGGTGCTC
AACCGCATGGTTTGCCGATGGGTCCCTGGACGGCATCCGCGTATACTTCCCGGACCCTTGG
CCAAAGGCGCGCCACAACAAGCGCCGCATCATCCAGTCTGGTCCGCTGAACCTGTTTGCA
AAGAAGCTCAAGCCAGGTGGAGTTCTGCACGTTGCTACCGACCACGCTGATTACGCAGAG
TGGATCAATGAGCTAGTTGAGGTCTGAACCACTGCTTGAAGTACAAAGGCTGGCCATGGGAG
GAATGCCCTCAGCTGACTGACCGTCAGGTCATCACCAAGTTTGAAGGCAAAGGCTTGGA
AAAGATCACGTGATCAATGAGTACTTGTGGCAGAAGGTGCAAAAC

>RXN02589-downstream
TAATGTCTGATGTGCATGAGGTC

>RXN02704-upstream
CGTCTTTGGACATGTTCAAAGGCATGGGCCAGCGTGGCGACCTCTTTGCACACAACATCA
TTGGCACAATCAAAGGATTAACGGAAGAGAAAGGCTGATC

>RXN02704
ATGACCACCGGAGCCTCAAAAAAACC CGCACGTCCGAACACTGGCGCTAAAACCAGAACG
GGGCTGGGAATTAGGGAGCGTATTTCCGGTGCATGGAATGATCTTCTCGCGCGCCCTTTA
ACTGACTACATCATGATCTTGTGCATCGTGGTCATTTTGTGCTGCCTCGGTGTAGTCATG
GTGTATTCCTCCTCAATGACATGGTCGTTGAGGGAAGGTGGCTCCGTGTGGGGTACTGCC
GTGCGCCAGGGCATCATGATCGTGTGGGTTTCTTTGCCATGTGGGTGGCGTTGATGACG
CGCCCGCAAACCATAGAAACCTATCCAACCTGATATTGATTGTGTCTATTGTCTTGCTG
CTTGCCGTGCAGATTCTTGGCATTGGTACAGGTAAAGAAGAGGTTCGGGTTCGAGTCTGTG
ATTGCTCTTGGACCTATTTCAGTTTCAGCCTTCGGAGATCGCCAAAGTGGCCATTGCCGTG
TGGGGAGCGCACTACCTCGCAGGCAAGGGCCCTGTGCAGCACTGGTTCAATAATCACTTG
ATGCGTTTTTGGTGGCGTCGGTGCATTTCATGGCGTTTTTGTATCTTCATGGAAGGCGACGCC
GGCATGGCGATGTCTTTCGTGCTGGTTGTATTGTTTCATGCTGTTTTTTGCGGGCATCGCC
ATGGGTTGGATCGCGATTGCCGGCTACTGATTATCGCAGCCCTCGCAGTCTTGGCATTG
GGCGGAGGCTTCCGTTCAAGCCGATTTCGAGGTGATTTTCGATGCGCTGTTTGGCAATTTTC
CACGATGTGCGAGGCATTGCCTTCCAGTCTATCAGGGCTTCCTCTCTCTGTCAGATGGT
TCCGGCTTGGGAGTTGGTTTGGGCCAATCAAGGGCGAAGTGGTTCTACCTGCCCGAAGCT
AAAAATGACTTCATCTTGGCATCATTTGGTGAAGAGCTGGGGCTGTGGGGTGGCGCTCTG
GTCATCGCACTTTTCGCGGGGCTGCTGTACTTCCGTCTGCGCACAGCCAAGAAGAGCCAC
GATCCATTCTTGGGCTTGATGGCTGCAACCTTGACGGCATCCGTGGTGTGCGAGGCGTTC
ATCAACATTGGCTACGTGGTTGGTCTGCTGCCAGTTACCGGTATTCAGCTGCCCATGATT
TCCGCGGTTGGTACCTCCGCGATCATTACCTTGGCTTCCATGGGCTTGCTCATTAGCTGT
GCACGCCACGAACAGACAGTTTTCTGCGATGGCTTCCATGGACGCCCCGCAATCGAT
CGACTTCTGGGATTGCGTGAGCCTTCAAGTACTTTGACCACCAGTAATGCATCCTTGCGT
TCCAACAAAACCAAGGCCGCTAAACAAAAGCCGAGTCTCAGAAAGAGTCTCGGGACCGC

TTCGGCGAGCCTGTGACCGCACGCCGAGCGCAGGCCACGAAGTGGGCGAGCTGGAGTA
 CAATCGGAAGCTCCGCGACGCTCGACTGGTAGCGTCAAAGGTCGAAGCAGTGGTCAGGAC
 AACGGTCGAAGCAACGAAGGTACGGCGCGTAGCCAATCAACTACTGGTGGGCGCGCAGCC
 GATCGCAGCGTTGATCGAAGTCGTCAAAGCAGGCCTACCGAGCGCCGTTCCGAGAGTCGC
 GCGATGATTGGCGTGACAACCGCAACCGCAGATAAATGTGAAATCAGGAGAACTACGAAT
 AAAGATGGC

>RXN02704-downstream
 TAACTCCCCAAAACCCATGCGGG

>RXN02707-upstream
 TTTTGATGACCGCGAAGAAGTTCGCGCTGCTTTGACAGAAAAGCTCAACAATAAACTTCC
 CCTTACTACGGAAGAAGGATAGGCCACAGTCATGATCACA

>RXN02707
 ATGACCCTTGGGGAAATCGCTGACATCGTTGGAGGCAGGCTTACTGGCGGTGCTCAAGAA
 GATACGCTTGTGAGCTCCAGCGTGAGTTTGATTCTCGATCCCTCACACCGGGTGGCTTG
 TTTTGTAGCACTTCCGGGTGCTCGTGTAGACGGCCATGATTTTGCTGCAACTGCAATTGAG
 AAAGGTGCGGTTGCAGTATTGGCAGCCCCGTGAGGTTGACGTACCTGCGATCGTCGTGCCT
 CCAGTAAAAATCCAGGAATCCAATGCTGACATTTATGCTCATGATCCAGATGGGCATGGC
 GCGGCGGTAGTGGAGGCGTTGTCTCGGTTGGCTCGCCACGTGGTGGATATCTGCGTGGCT
 GGCCATCAATTGAACGTTGTGGCTATTACTGGTTCTGCGGGAAAGACTTCTACGAAGGAT
 TTCATCGCGACGTTCTTGACCAAGATGGGCCAACTGTGGCTCCTCCGGGCTCGTTTAAAC
 AATGAGCTTGGTTTGCCACACACCGCGCTCCGCTGCACAACCGATACTAAGTATTTGGTG
 GCTGAGATGTCCGCGCGTGCCATTGGACATATTAAGCACCTGACAGAGATTGCTCCGCCA
 CGGATTGCAGCTGTGCTCAACGTCGGCCATGCGCACCTGGGTGAATTTGGATCCCGCGAG
 AATATCGCGCAGGCAAAAGGCGAGATCATTGAAGCGCTGCCCTCGAAGAAAACGAGCTCG
 GTACCACTCTGAATACTGATCCTTTTGTGCGCCGGATGGCTCCACGCACTAAGGCGCGC
 GTGGTGTGGTTTACCACCGATGCAGGCCAAGCAAAAAGTCTGATTATTGGGCAACGAGT
 ATTTCACTGGACGCTGTTGCGCGGGCAAGCTTTACGCTGAACACGAAGGACGGCTCTTGG
 CCGGTCACCTGCAGGTTTGGTGAGCACCAGGTTGCTAATGCACTTGCTGCTGCTGCC
 ATTGCCATGGAAGCTGGCGTCGCCCCAGAATTGGTGGTTGCTGGATTGGAAGCACATTCA
 GCTGCTTCCGCGCACCGCATGGATGTAAAGACCCGTGCCGACGGCGTGACCATCATCAAC
 GATTCTTACAACGCGAATCCTGATTCTATGCGTGCAGGTATCGCGGCTCTTGCGTACACA
 GCTAGTGGTCTTCTGAAGCAACAAGCTGGGCAGTGCTTGGCCAAATGGGTGAGCTTGGC
 GATGACGCCTCGGAAGCCCATGCCGAACCTGGTGCTGAGCTGGCTAAATACAATGTTCAA
 GAACTTGTGCGAGTGGGGGAGAACCCTAACTGTGCAGCACTTGACAGTCCGCAGCGAGC
 CTGGGTGTGAGTACTACGTAGTTTCAGACGTTGATGCAGCGCTCGAGTTGCTCGCAGGC
 CATATTAAGCGGGATGATGTAGTGTGTTAAGGCTTCAAATGCTGATCGCCTGTGGAGG
 GTCGCAGAAGCACTACATGGCATGGTGCCGGGCCTCAAAAACACAGGTGGCTCGGTCAAC
 GACGATTCTCGTCGGAACGTGGAAGGACAG

>RXN02707-downstream
 TAGAAAACAATGCAACAGATTAT

>RXN02723-upstream
 CGTGCTCACCATGGGTGCAGGTTCCGTGACCATGCTTGCTCCAGAAATCCTGGATCAGCT
 GCAAAAACAATTAGGACGTAAGTGAACAAGGCAGGACTAGC

>RXN02723
 GTGAACAAAAAGTCATCGCCATTGTTGTGGGTGTGGTTGTTGTCTCGTGGCAATCCTG
 GCGGTTGTTGCTTGGTTCCGTTCCCATCCTCAAGGTGGGAAACATTGAAGTAACCGGTGCA
 ACGCGCACATATCCGGATCAAGTACTGGAAGTCTCCGGGATTGTTGAGGGCAAAAACCTC
 TTCCGCGTCGATGCGACTGCAGCAGGGCAAAACATTGTGGAATTGCCCTGGGTGAAATCG
 GTGACCGTTAACCGTGCCCTGCCAAGCACCATACCGTGGAGCTGACAGAGCGTGAGCCT
 GCAGTGTTTCAAGCGTGCTGATGGTGACCATGTCATTGACACCGAGGGTAAAGAAATT
 ATCATTGGAACACCCCCGGTGGGAACAGTAGAAGTTTCTGGCGCGGATGAAGGAACTCA
 GAAGTGCTTCTGCGGTTATTGCTGTAATCAACGCAATTAAAGCGCAAGATGCGCAGATG
 ACAGAAAGTATCCAGGTAGTGAAGCTCCGGATCAATTTGATATCTTGCTGAAAATGAAT

GATGGCCGGGAAATCTACTGGGGATCCTCGGAAAACAACCACGATAAAGCGGTGGCAATG
TCGACTGTTTTGAAGCGGGAAGGCCAACGTTGGAACATTAGCTCACCTCAATGGTGACA
GTCCGC

>RXN02723-downstream
TAAAGTGGCTGGGTAGTTCCGGT

>RXN02813-upstream
GGACTCTAAATTGACCCGATCTTTATACTCCGACCTTGCTGGTAGTGGAGAACACCTCAG
CAGCCTTTCCGACGAGACTTTCCCTAAAGAATCTTCTTGTC

>RXN02813
GTGGAGGCCGCTTTGGCGGTTGCAGCTGCCCCGAGCACGCAGCAATGGCGAAGGCCACC
ATTGATTCTTATCAGTTGGATGTGGAGGAGCTTTCCCGTCGCGCAGCCGAGGGCGGTAAT
CCGCTCATTCCGCTGGTCACTGACCTCAAGGCCATCAATCCGGCAGGCATCCACATTGGC
GCAACGAGCCAGGACATCATTGATTCTGCGTTAATGCTGTGCATGAAGGAAGGGGTGGGG
GAGGTGCTCGACAAGCTTAAAAAGCTTGCGCGAGATTGGCCGAGCTCACCGCGGAGCAT
AAAGCAACCCCGATCATGGGGCGCACGTTGGGGCAGATCGCGACGCCGACGACGTTCCGC
GCGTGAACCGCGGCTGGCTGGTTGCGGTGGACAATGCGGCACGCGCCCTGGAGGCGCTG
GAGTTTCCGGTGTGCTATGGCGGTGCCAGCGAAATATGACGGCGGTGCACCCGCGTGGC
TTCGAGATTGAGGCGAAGCTGGCCGAGGAGTTGGGCCTTTTTGATCCGCAGTGGGTGTGG
CATTCCGATCGCACGCCGATCACTGCGATCGCGTCCGCGCTGGCAACGGCCGCTGGTGTG
GTACGCAAAATTGCTGGTGACGTGGTGTGTTTTACTCACAAACCGAGGTCCGGCAGTTGCGG
GAGAAATCCCCCGCGGCAGCTCCGCGATGCCCCACAAAGCCAATCCGGCCGCTGCGATT
GCGTGCGACGGTTACGCGCGCCGGGCACCTGGCCTTCTTGCAACGCTTTTCGACGCCCTC
GACTGCCGTTTGCAGCGCGGCACCGGCAGCTGGCACGCGGAGTGGGCAACGCTGCGCGAG
TTGGCTGCTGTCACTCACTCAGCAGTGAGCAGGGCTGCAACCAGCATCGATGGCATCACC
GTCAACGTTGATGTGATGGCAAGTCGCGTCAATGGACCAACCGGGCACGCCGAAGATTG
GCGGAGCGGGCACTAGAAATTTATGGAAAAGGACGCAGT

>RXN02813-downstream
TAATGGATC

>RXN02820-upstream
CAACGAAACAAATGCAAGCCCCAATCATGGGTTTCTACCAATTAAATTTCTTTCAGAA
AATATCTCCCCACATAAAAGTTCCTTGATAGGCTCGAGAG

>RXN02820
ATGAAAGTGACCCAAAGCACATTCCTTAAATCGGTAGCTGCGTTCACTGTCGCAGCCTTA
ACCCTGACCATCTCTCGTGTTCAGCGGTGAAGACACCTCCGCAAGCTCCACGGATACT
GAAAACTCCTCAACCAAGCAGCAGCGTCTCCCCACTTGCGCCTTGTAAGTTCCTCGCC
GACGCTTCTGCTGAAGAGGAAGTAGAAGGCACTCACACAGGTGAAGATATTTCTGTTGCC
CCGGAATCGGTACCGGCTACCGCGAGGGCATGACCCCTGTTCAAACCAAGGTTATGCG
GTGGCAACTGCAACCCCATCGCTTCTGAAGCAGCCTGCGCGGTGTTAAGAGAAGGCGGC
ACTGCAGCTGATGCTCTTGTACCGCGCAGTTTGTGTTTGGGACTGACGGAACCGCAGTCG
TCTGGCCTTGGTGGTGGCGGATACATTCTGTACTACGACGCCGAAGCCAATGCGGTGACA
GCCATTGATGGCCGTGAAACAGCGCCAGTTGCTGCTGATGAAAATATCTCATTCATGTT
TCTGCAGAGGATCAAACGGCACCTGTTCTGATGCCCCGACGTTCCGGCAGGTCAATTGGT
GTGCCAGGAATCGTGGCAGCCCTTGGACAGCTGCATGATTCAATCGGAAAGACCTCCTGG
CAGGACGTGCTGACAACTCCGAGCAGCTCGCAACTGATGGTTTTTCCATCAGCCCTCGC
ATGTCAGCATCAATTGCTAACTCCGCTGAGGATCTCTCCACGATCCGGAAGCTGCCGCA
TATTTCTTGATGAAAACGGTGATGCGAAGGCACCCGGCACACTTTTACAAAACCTGAC
TATGCAGAAACGATTGCTCTCATCTCTGAAGGTGGCCCCGATGCGTTCTACACGGGTGAG
ATTGCAGCAGACATCGTGGAACGCGCCACCCGTGAGGTTGACGTTTACACCATCACTG
ATGAGCACGGCAGATTTGGCTGCCTACACTCCGGAACCTCGTGAAGCTTTGTGTGCTCCC
TACCGCGACAAGATTGTTTGTGGCATGCCACCGTCATCATCGGGTGGCGTCACAGTGATG
GAAACCTGGGTATCTTGAACAACCTTGATCTCGCCCAATACCCACCCACTGAGGTTGGT
TTGGATGGCGGATTGCCAAATGCGGAAGCTGTTACCTGATTTACAGAGGCTGAGCGCCTG
GCTTATGCTGATCGCGATGCTTACATCGGTGATCCTGCTTTCGTGGAAGTTCCAGCAGGT

GGTGTCCAACAGTGGATCAACCATGTCCACACGGGCGAACACTCCAAACTT

>RXN02839

TGTGTGGTGAATGATTATGCTGACCGCAAGTTTGATGGTCATGTTAAGCGCACGGCGAAC
CGACCACTTCCCAGCGGCGGGTAACAGAGAAAGAGGCGCGCGCTGTTTGTCTGTGCTG
GTACTGATTTTCGTTTTTACTGGTGCTGACGCTGAATACGATGACCATTCTGTTGTCTGATT
GCCGCGCTAGCGCTGGCGTGGGTGTACCCGTTTATGAAGCGGTATACCCATCTACCGCAA
GTGGTGCTGGGCGCGGCGTTTGGCTGGTTCGATTCCAATGGCTTTTGCCGCTGTGAGTGAG
TCGGTGCCATTGAGTTGCTGGTTAATGTTTCCTCGCCAATATTCTCTGGGCGGTGGCTTAC
GACACGCAGTATGCGATGGTTGACCGCGATGATGATGTGAAGATTGGCATTAAATCCACG
GCAATCCTGTTGGCCAATACGATAAAT

>RXN02839-downstream

TGATATTGGGATTTTGCAGATTG

>RXN02908-upstream

GCCAACGAGGGTTGGTTTACCACCTCTGATTCAGGTGAAGTCCACGACGGGATTCTCACC
GTGACTGGTCGCGTGGATACCCGTCATTGATTCCGGTGGA

>RXN02908

TTGAAGTTGCACCCAGAGGTACTGGAACGTGCCATCGCAGATATTAAAGGTGTCACCGCG
GCGTGTGTTGTGGGTATTCCCGATCCCGATTAGGCCAAGCAATTGTGGCCGCGTACTCC
GGATCGATCAGTCCGTCTGAAGTTATTGAAGGCCTCGACGATCTACCTCGTTGGCAGCTT
CCCAAACGGCTGAAGCATCTGGAATCTTTGCCAGCATTGGTCCTGGAAGAGCTGATCGA
CGTGCTATCGCGAAGCTGTTT

>RXN02908-downstream

TAGTCTTCATTCTTGCTGGCTGC

>RXN02913-upstream

TCCCTGACATCCAGGTTGAAGCAACGTTTGATGACGGCACCAAGCTCGTCACCGTGCACA
ATCCCATCCGATAACCCTTGATGTTTTTAGGAGTTTTGTC

>RXN02913

ATGATCCCAGGCGAGTACATCCTGTCCAGCGAATCACTCACCGGAAATGTTGGGCGCGAG
GCCAAAACCATCGAAATCATCAACACCGGTGATAGGCCTGTGCAGATTGGTTCGATTTTC
CACTTCGCTGAAGTAAACCCAGCATCAGCTTTGATCGCAGTGAAGGTTACGGCTTCCGC
CTTGATATTCCATCCGGCACCGCGGTGCGCCTCGAGCCAGGCGATGCCCCGACCGTCAAC
CTTGTGGCATTGGCGGTGACCGCATTTGTTGCAGGTTTCCGAGATCTCGTCGATGGGCCG
TTGGAGGACCTCAAAGTCAACGTGTGGGAGGGACGCGAAGACGGTTGGCGTCGTTCTCA
GCTGCTGGTGATGCTCCACAAGAATTGCCACAGGTGGAAGCTGCTGAACGTGGCCGGA
CTAGATGACGCCACTGATGTGGACACAAATGTGGGCACAGAAGAAGGCTTTGAAGAAGGT
CGAAAT

>RXN02913-downstream

TAAATGAGTTTGTGAGATTTCCTG

>RXN02937-upstream

GCTACCGCGAAGAACTGTACTAGTTCTTCCATCAGCACCCGCGAGTTGTCTTTGCAAGAGT
TCGAAACATCCAACGCATTGGTGACACCGGTGTTGTCGCG

>RXN02937

GTGATCAGCAATGGGGAAGGTCCGGTTGTTGCGCTTCGTGGCGACATTGATGCGTTGCC
ATGGCGGAGCGATCCGGCAAAGAATACGCAGCAACCGGAGTGACACAGGTGGATAACACC
ACCGGTCAAGAAACTCCGGTGGCGCATACCTGTGGCCACGATGTGCATATTTCACTACTG
TTGGGTGCGGTGCGAGGCGTTCAATTCTCATCGGGAATTGTGGAACGGAACGTTGATGGCC
GTTTTCCAGCCAGCGGAAGAGACGGCAGCTGGTGCGAGGATGATGGCGGATCAGGACAAC

GCGCCGGGAAATCACTCTCCAGCGTTTCGCGCCAGATATGCAGCCAACTCTTGATCGTGGT
GTGGAAGCGCTGGTTGTAGCTGCTTCTGCGTGGCTAGTAAAA

>RXN02937-downstream
TAATTGGCTAATGAATCCTTTTC

>RXN02944-upstream
GGGGAGGTCCCAACAGGTGGTGGCGAAGAGGTGACCAGCGAGGTCAACAGGG

>RXN02944
GTGAACGCTCAGAATCTTATTGATCCAGAGCATTCAATGGGTCAGGCAACTGCTGGTGTG
AGCCAGAACCCAGTCATGGCTGCCCTGCCGAAAGTGGCACCAGCCATATTTCCATCATC
GATTCCCTATGGCAACGCAGCATCGTTGACCACCAAGTGTGGAAGCTGCTTTCGGTTCCTTC
CACTTCACCCGTTGGTTTCATTTTGAATAATCAGCTGACAGATTTCTCCGCTGAACCACTT
GATGAGGACGCGAGCCCGTGGCCAATCGTGTGAGTCAGCAAAGCGCCACGGTCTTCC
ATGTCGCCAATGCTAGTGTTCAACGCCAGTGGCGATGGTGAAATCGCGGATCTGAATATG
GTGCTGGGCTCCCCTGGCGGATCCTTGATTATTTCAGTACGTGGTGAAAACCCCTGGTCAAC
ATCATCGACTGGGATATGGATCCACAGCAGGCAGTGTCTGCGCCCACTTTGGTGCGATG
AACCAGCCTAAGACTGGACTGGGAAGCGAGCATCCGCTGATCGCCAATGATTTCAGCAGAG
CTTGATCTGAACTGGAAAGCAAAGGCCACGAAGTTAATGTGGGCGAGCAATCCAGTGGC
CTATCGGCGTTGGTGAAAAACGGCGACACCATTGTCGGTGGCGCCGATCCACGTAGAGAA
GGCGTGGTCTTGGGTGGC

>RXN02944-downstream
TAATTAGCGCGCAGACCACGCAG

>RXN02952-upstream
TCCAAACCGCTGTTTCTGCTCGTGGCGAATCCTGGATATTGAAGTAATTGAAATCCGAGA
CCTGATCTTTGATCTCGCTACCTCATTCACAAGCGCCGGC

>RXN02952
ATGAGCTCCCCAGCACTTGACGCTGCAAAACAGCGCCTTGCTGAATCCGATGGCCTGATC
GCTGTTACCCAGTATTTACCGCGAGCTACTCCGGCATCTTCAAGATGTTCTTTGATGTC
CTGGACCCCAAGACCATTTGTGGGTCTGCCACCATCATTGCGGCATCTGCTGGAACGGCA
CGCCACTCATTGGTTCTCGACCACGCCATCCGACCACTGTTTACCTACTTGCGAGCAGTT
GTCGTACCCACCGGCGTGTTTCGCAGCCACGGAAGATTTCCGGCACTGAAGCTGGCGCAGAC
ATTGAACGTGCGGTGAACCGCGCAGCTGGCGAATTAGCGACACTCATGTTGCAGGATTAC
TCCAGTGTGAAGGCCTTGGGGGCGCAACCGCGAACCAAGACGCTGACCTTTCTTCCGT
CGCACCACTGGCGTGACCCCGGGAGAGAACTTCAGCAGCTTTGCCGATCTTTCTCAAAG
ACACGACGGAACGGCTAAATTCGCGGATCTCCGTT

>RXN02952-downstream
TAAGGCATTGAAGCATTGGAGG

>RXN02972-upstream
ACCTACGACGGTGAAATCCTAGGCTCCCACTCAACCCAAATGGGATGCGTGCGCCTGACC
GAACGAATCATGCGCAGCGACCCACCCGACTGAAACCGAA

>RXN02972
GTGGAAATCGCCGCGACTACGTTGCAGAACGCATCCAGGAAGTAAAAGCCATCGTCCCA
ATTTCAAAGGCAAAAACCTTTGTGGGATGCGCAGGCACCTTCACCACAATCTCCGCCTGG
GTGCAAGGCCTAGAAAGCTACGACCGCGACGCGATCCACCTCTCTGCACTCAACTTCGAT
GCACTGCGAGTTGTCAACCGATGAGATCATTTTCAGAATCATCATCAGCGCGCCAGCAAC
CCAGTTGTTGATCCAGGTCGCGCCGACGTCATCGGTGGCGGATCCGTTGTTGTCCAAGCA
GCGATCGACTTAGCCTCCAAAGAAGCCGGTGTAGACTACATCATTATTTCCGAAAAAGAC
ATCCTCGACGGCCTCATCCTTGGCCTGGTAGAAGCCGACTCTTTGAAGAAA

>RXN02972-downstream

TAGGACCCTAGTTTTAAACCACT

>RXN02973-upstream

GTCGAGAGCTGTAAAGTCAAGGCTATATACTTCTCAAGTCGCGCCGAAATTTGTTAAATG
ACTATAAAAGGCAGTCCTAGTCAAGGAAGAAGGTTTGACT

>RXN02973

GTGAGTGATGCAGGGAAGAAGGACTCTTCCAAGGTGGAGATCGGACTGACCGGTGCGACCC
CTGCGCGAGTTGCCTGAGCCATCTCCTTTGGAAAAACATGGCCAGCAACGATCATTGCC
ATGGCGAATCAAAAAGGTGGCGTTGGTAAAACACGTCACCATCAACCTCGGAGCATGC
CTTGACAGAGGCGGGACGTAAAGTCCTGCTCGTTGACTTGGATCCGCAAGGTGCGTTGACT
GCTGGTTTGGGAATCCACTACGACGACGTGGATATCACCGTGTATGACCTCATGGTGGAC
AACAATTCCACCATTTGATCAGGCGATCCACCACACTGGTCTTCTGATCTGGATGTCGTT
CCTGCAAATATTGACTTGTCCGCTGCAGAAATTCAGCTGGTCAATGAAGTTGGTTCGTGAA
CAAACACTTGCCAGGGCGCTGCGTCCTGTCATGAAGGACTACGACTTCATCATCCTTGAT
TGTCAGCCATCACTTGGTCTTTTGACGGTGAACGCTTTGGCGTGCGCGCACGGGGTTATC
ATCCCGATGGAGTGCGAGAACTTATCACTGCGCGGCCTCGCATTGCTCACAGACACCGTG
GAAAAGTTGCCGATCGGTTGAACTTCGATCTGGAAATCCTCGGCATCTTGGTC

>RXN02974-upstream

GCAGGCATGGACACATTCCAGGTCCTGACCGGCGTCAGCGGCTACTACGATTTGGTGCGC
GCCATTCAGAGCAGCGCCCCACCTATATCGCCACCTCG

>RXN02974

ATGCAGGATCTCTACAGCGATCCGGGCGAGCTCAAGCCAGGTGCCCAGGGCGGTTTTTCA
GCGCTTATCGACGGCGACACCTGGTCATTTCCGGCGGCGATGCCGGCGCAACTCCGGTT
GCAGCACTCCGCACTGCGTTGGATGTGGCCTGGGCGGCCACAGAGCAGTCACCGAGGTAC
GCGCTGATTACAGAGG

>RXN02974-downstream

TAGCTGCTACTGCATTGCAGAGC

>RXN03000-upstream

CAGCGTGTTGCTGCGCCTGCAGAAAACCTACAGCGTCACCCACAAAGTCGAAATCCAAGG
CTAACCCCTTTTTCAACTCACAGTTAGGAACTTCACCC

>RXN03000

ATGTCTCTTCCACATTCTGATGAACCTCCGCGGCCAAAAGATCATTATTTCCGGTGGCGGA
ATTGGTGGCGCAGCAGGTGCATTGCGCTTGGTTTGGCGGGTGCCGATGTCATTTGTAC
GAACGCGCAGCTGAGTTCAAGGAGGTGCGCGCTGGCCTCCAGATCGGTCCGCACGGCTGG
CGAATGCTGGAATCCTGGGGTCTGCTCGACCAAATTGTCGTGGCCGGCTACCTCCCAGAA
GACATGCAGTTCCGCGACGCTGTCAACCGCGAAACCATCCTGACCATGCGTTTCGATGAA
GAATTCCAGCAGCACTACGGCGGTGCTACCTGGTGATTACCGCTCTGACCTGCTCAAC
ATCCTGGTCAACCAACGCCGAAGCAGCGGGCGCAAGCTCCACAATGGCGTCTTGGTCACC
GATTCGCCGACCGTCGACGGCGGTATCGAGGTGGACATCGAATCCTCCATCAACAAGGGC
GAAGATAACAAGACTTTGCTTGTGACGCCTTCCTCGCCTTCGACGGCATCCACTCGGTC
ATGCGCAAAAAGCTTGTCGACGACGCC

>RXN03026-upstream

GTTGGCGGCGCAGTATCGTGAGGTGCGGGACCTCGAGCGGGGAATCCCAAACCTAGCATCC
CGAACTAGCCCCCAACAACAATTAGAAATGGAACCTAAA

>RXN03026

ATGCCTGGAAAAATTTCTCTTCTCAACGGCCCAAACCTGAACATGCTGGGCAAACGCGAG
CCTGACATTTACGGACACGACACCTTGAAGACGTCGTCGCGCTGGCAACCGCTGAGGCT
GCGAAACACGGCCTTGAGGTTGAGGCGCTGCAGAGCAATCACCAAGGTGAGCTAATCGAT
GCGCTGCACAACGCTCGCGGGACCCACATCGGTTGCGTGATTAACCCCGGCGGCCTGACT

ACACTTCGGTGGCGCTTTTGGATGCTG

>RXN03026-downstream
TGAAGGCGTCTGAGCTTCCTACC

>RXN03028-upstream
CTAATTCCAAGCCGAGCTGAAAAAGTCTGGAAGTTTTGCCCAATAAGGGCGTTAAAGTGG
GTGAAAGCGAATTTAGAAATAAAGAATTAAGGGGAGAGAC

>RXN03028
ATGTTTCGAGAGGTTTACCGATCGTGCACGCCGCGTGATTGTGCTCGCGCAGGAAGAGGCG
CGCATGCTCAACCACAATTACATCGGCACGGAGCACATTCTCCTCGGCCTCATTCACGAG
GGCGAGGGCGTTGCAGCCCAAGGCTTTGGAATCCATGGGAATTTCCCTGGACGCCGTCCGC
CAGGAAGTCGAAGAGATTATCGGCCAGGGCTCCCAGCCCACCACCGGCCACATTCCTTTT
ACTCCACGTGCCAAGAAGGTCTGGAGCTCAGCCTCCGCGAAGGCCTACAAATGGGACAC
AAGTACATCGGTACTGAGTTCCTGCTTCTCGTTTTGATCCGTGAGGGCGAGGGCGTTGCT
GCCCAGGTCTTGGTCAAGCTTGGTGTGATCTGCCACGCGTGCGTCAGCAAGTTATTTCAG
CTTCTCTCCGGCTACGAAGGTGGCCAGGGCGGATCCCCAGAGGGCGGCCAGGGCGCCCCCT
ACTGGCGGTGACGCTGTTGGTGCAGGAGCTGCTCCTGGCGGTGCTCCATCTTCGGGCAGC
CCAGGCGAGCGTTCTACCTCTTTGGTCTTGACCAGTTCGGCCGCAACCTCACCAGGCT
GCAAAGGACGGCAAGCTGGATCCAGTTGTTGGTTCGCGATAAGGAAATCGAGCGCATCATG
CAGGTGCTCTCCCGTCTGACCAAGAACAACCCAGTTCTTATTGGTGAGCCAGGTGTTGGT
AAGACCGCAGTTGTTGAAGGTCTTGCACTAGACATTGTTAACGGCAAGGTTCCAGAGACC
CTCAAGGACAAGCAGGTTTACTCCCTTGACTTAGGTTCCCTGGTTGCAGGTTCCTGTTAC
CGCGGTGACTTCGAAGAGCGACTGAAGAAGGTCTCAAGGAGATTAACCAGCGCGGCGAC
ATCATCCTGTTTATCGATGAGATCCACACCCTCGTGGGTGCAGGTGCAGCAGAAGGCGCA
ATCGACGCTGCCTCCCTGCTTAAGCCAAAGCTTGCCCCGCGGTGAACTGCAGACCATTGGT
GCAACCACCCTGGATGAGTACCGTAAGCACATTGAAAAGGACGCAGCTCTTGAGCGTCTGT
TTCCAGCCAGTGCAGGTTCCAGAGCCTTCGGTTGATCTCACCGTTGAGATCTTGAAGGCT
CTGCGCGACCGCTACGAAGCTCACCACCGCTATCCATCACCGATGGTGCTCTTACTGCA
GCAGTCTCAGCTTGCTGATCGCTACATCAACGACCGCTTCTTGCCAGATAAGGCCGTTGAC
CTCATCGATGAGGCTGGCGCCCGCATGCGCATCAAGCGCATGACCGCACCTTCCTCCCTC
CGCGAGGTTGATGAGCGTATCGCTGATGTTGCGCGTGAGAAGGAAGCAGCGATCGATGCT
CAGGACTTTGAGAAGGCAGCAGGTCTTCGCGATAAGGAGCGCAAGCTCGGCGAAGAGCGT
TCAGAGAAGGAAAAGCAGTGGCGCTCCGGCGACCTCGAGGACATCGCTGAGGTTGGCGAA
GAGCAGATCGCAGAAGTACTGGCCAACTGGACTGGTATTCTCTCAAGCTCACCGAA
GCTGAATCTTCACGCCGTGCTCAACATGGAAGAAGAGTTGCACAAGCGCATCATCGGACAG
GATGAAGCTGTCAAGGCTGTCTCCCGTGCGATCCGTGCTACCCGTGCAGGTCTGAAGGAT
CCTAAGCGTCTTCCGGCTCCTTCATCTTCGCTGGTCCATCCGGCGTTGGTAAGACCGAG
CTGTCCAAGGCTCTCGCAGGATTCTCTTCGGTGACGATGATTCCCTCATCCAAATCGAC
ATGGGTGAGTTCCACGACCGCTTCACCGCGTCCCGACTTTTCGGTGCCCCCTCCGGGATAC
GTTGGCTACGAAGAAGGTGGCCAGCTGACCGAGAAGGTTGCGCGTAAGCCATTCTCCGTT
GTGCTTTTCGACGAAATCGAGAAGGCCACAAGGAGATCTACAACACCTTGCTGCAGGTG
TTGGAAGATGGTGCCTTACCGATGGTCAGGGACGCATCGTGGACTTCAAGAACACCGTC
CTGATCTTCACCTCCAACCTGGGCACCGCTGACATCTCCAAGGCTGTTGGCCTGGGCTTC
TCCGGATCCTCCGAGACTGACAGCGATGCTCAGTACGACCGCATGAAGAACAAGGTCCAC
GACGAGCTGAAGAAGCACTTCGCCCCTGAGTTCTTGAACCGTATTGATGAGATCGTGGTC
TTCCACCAGCTCACCAAGGATCAGATCGTTTTCAGATGGTCGACCTTCTTATCGGTGCGGTT
TCCAACGCACTGGCTGAGAAGGACATGAGCATCGAACTGACTGAGAAGGCCAAGGACCTC
CTGGCTAACCGAGGCTTCGATCCAGTTCTGGGTGCACGACCATTGCGTTCGACCATCCAG
CGCGAAATTGAAGACCAGATGTCCGAGAAGATCCTCTTCGGTGAAATCGGCGCAGGCGAG
ATCGTCACCGTTGACGTGGAAGGCTGGGACGGCGAGTCCAAGGACACCGACCGTGCGAAG
TTCACCTTCACACCAGTCCAAGCCAATGCCAGAAGGTAAGTTCTCTGAGATCTCTGTC
GAGGCTGCGGAAGCAATTCAAGATGTAGATTCTGCAGCTGACGGCGATGTCCAGAAACC
GATTCACTTTCCGACATTGACCTTGAAACCTTGAAAAGTTTGAGGAAGATGTAGAAAAC
GGCACCGACATTGATCAGGTGTCCGGTGACTACTACGGCACCGATGATCAGGGAGGCACT
GCTCCAAGCAAGGAG

>RXN03028-downstream
TAGCAACCTTTTGAAAAGGGCC

>RXN03036-upstream

TAGAAAAATCTACCCAGTAAGCATTTCAGGAACCATTTCAGAATCTTTTCTTAGCATGTCTC
TATCAGCGTAAACGTCCGAACATGAAAGGCTAGAAAAGCC

>RXN03036

ATGGCTGAGCAGTTGCGTCAATTTGAAGGCAGGGTCCTCCCTAATCAATCCGAGGACTTG
GAAGATCAGGGTTTGGGATTTGACCTGGGAACCGTTTTCTCCCGCAGGAAGGTTTTGGGA
TTCATCGGTGTTGGTGGAGCAGGTGTGGCACTTGCTGCTTGTTCACCTTCTGGTTCTTCC
GCGGCATCGAGCACCTCAAGCGCTCCAGCAGCGCAGCTGCAACCACCAGTGCAGCAGCA
GAGACTTTGACTGAGATGAAGTCGGAGACTGCTGGTCCGTACCCGGGCGATGGTTCGAAT
GGTCCGGATGTGTTGGAGGTCTCCGGTGTGGAGCGCCAGGACATCACCAGTCGATTGAT
TCTGACACCGTGGCAGAGGGCGTACCTCTGACGTTGACTATGACCATTTTGGACATGAAC
AACAACAATCAGCCAATGGAGGGTGTGCGGTGTACGTGTGGCACTGTGATGCGCCGGGT
CGATATTGATGTACGACTCTGAGCTGGAAGATGAGACCTATTTACGCGGTGTGCAGATT
ACCGATAAGTATGGCCAGGTCACGTTGATAACATTTTCCCTGGTTGTTATGCGGGCCGT
TGGGTGCATATTTCATTTTCGAGGTGTCCCGGATCGAGACAGCATCACGGATTCCACGAAC
AACATT

>RXN03077-upstream

ACCCGATCCTTTGTTTTTCGTGGGATCACTATTAGACTCGACTCTACCGCGCTGCAGGTT
TTCCTGATACGCCTGCGGACAAAACAGAAAGGTATTTTAC

>RXN03077

GTGATGGAAATTGGTGTGCAGGTTGCCTCATGGATGGACCGCCACCATGACGAGGTCATA
AAGTGGCGCAGGCATTTGCACAGCCATCCTGAGCTCTCCACATGGAATACCGCACGACT
GAGTATTTGGCCTCGGTTCTGAAAGATCACGGCATGGAACCACACCTGTTCCAGGAACC
GGTTTGATGGTGGATATCGGACCAGAAGGGGACTCCCGCCTGGCGTTTCGCGCTGATATC
GATGCCCTTCCGCTGCTTGAATCAACCGGCTTAGAGTTCTCTTCCACAGCCACTGGCGTT
GCGCATGCCGTGCGGACATGACGTGCACACGGTGATCGCTTTGGCACTTGCCTGTGCATG
AACACCATCGAACTGCCCATCGGCATTTCGGGTGATTTTCCAGCCGGCAGAAAGTCATG
ACTGGTGGCGCAACGGACGTCATTGCCCACGGTGGCCTTGATGGTGTGGATGCGATTTAC
GCCATCCACGTTGAACCCAAATTGAAGGTCGGTTCGCGTGGTGTACGCGCTGGCGCGATT
ACTTCTGCCTCAGATGTGATCGAAATCAGAGTCAAGGGTGAAGGAGGACATAGCGCACGT
CCACACCTCTCCGCTGATGTTGTTTACGCCTTGAGCAAATTGGTTCGTTGATCTTCCCGGT
TTGCTGTCCAGGCGCGTCGATCCACGCACCGGCACCGTGCTTGTTCGGCACCATCAAC
GCCGGCTATGCGCCCAACGCGATCCCAGATTCCGGCATCGTGTGAGGCACCTTGGCTACA
GCCGACATCTCTACCTGGCGTGACATGCGTCCGCTTATCTCTGAGCTGGTGGAAACAGGTG
CTCGCACCCACCGGAGTCACCCATGAACGTGATCTACAATCCGGGTGTTCCACCAAGTGCTT
AACGACGATGTGCGCACCGCTTTGTTGGCAAGCGCAGCACGCGACATGGACACACAATCT
GTTGTCCAAGCGCCGAGTCATCCGGTGGAGAAGACTTCTCGTGGTACCTTGAACACGTC
CCAGGATCAATGGCCCGGTTGGGTGCTGGCCGGGGCACGGACCCAAGCAAGACCTCCAT
CAAAGTGACCTGGTTGTGGATGAGCGAGCCATCGGAGTTGGCGTCAGGCTCTTTGGCTCC
CTTGTGCAGCAGTACAGTAGCCGATCTGAAGCTTTCTTAAATTCC

>RXN03077-downstream

TAATGGGGGTAGTGTGTAGGGCT

>RXN03088-upstream

TCATGGCACCGGGACCTGGCATCGTAGCTAAGGTTTCTTTTGATGATTTCTCCGACGTCA
CCGGCGCGATGAACCTCCTCGAATTGGAGGCAAAGAACTA

>RXN03088

ATGGGTCAAACCCGCATCATTTCCGGCGACGCACGCGCCGCAAGATCGAAGTACCACCA
GCAGGTACCCGCCCCACCTCTGACCGCGCACGCGAAGGTCTCTTCTCCTCACTGCAGGTC
CGTTTCGGAATTTGAGGGCCAGCGCTCTCGACATTTTTGCCGGCTCCGGCGCAGTCCGA
TTGGAAGCTGCCAGGGGTGCCGATGAGGTAGTTCTGGTTCGAGTCGAATCCTAAGGCC
GTAGAGGTAATTCGACGGAATGTGGACGTCGTAAAGCATCCTCGCGTAACCGTCGCAGAG

ATGAAAGCATCCACCTACCTTGGCTCCGCACCCGATAAGTTTTTACGATGGTGCTCGCC
GACCCGCCCTATGAGCTTGCGACGACG

>RXN03091-upstream

GCAAGGCTTATCCAATGGTTGTATCGGCGCTGGCGATCGGTGGTTTTTTTTTGAATAACG
CTCTTGCAATATCTTTCTGAGCAGGGGAATCACCCAAGAT

>RXN03091

ATGCTGGCGAAGGACTCCTACACCATCAAATTGACTTTGGATCCAGATGTTCAAGGATGCA
GCGCACAAATGCGGTGTCTCCACGTTGATCCAACCACCCAGGTGTCGCTGAAGTTGTG
AACGTCATTGAGCCTGGCGAGAACTCCCGCGATATTTGGCTATTACTTCTCCCGCAAC
TACGGCCTTGACCTGGATGCTGGTGAAACGATGCTGCCTCAGGCAACGTCCCGTGTGGGT
AATGGTGCCGGTTCCATTTTCAAGATCTTTACCGCCGCTGCAGCCATTGAGCAGGGCGCT
GGCCTAGACACCATGTTGGATGTTCTTCTCGATATGAGGTCAAGGGCATGGGCTCCGGC
GGTGCCGCGAACTGTCCCGCAAATACTTACTGCGTGGAAAACGCAGGATCCTACGCGCCT
CGCATGACTCTGCAGGACGCTCTCGCGCAGTCCCCAACACTGCATTGTTGAAATGATC
GAGCAGGTTGGCGTGGACACCCGTTGTGGATCTTTCAGTAAAGCTGGGCCTGCGAAGCTA
CACCGA

>RXN03091-downstream

TGAAGGTTCTTCGACGGCGAAA

>RXN03092-upstream

CCGACTGTCAGCAGTAACGCACAGTCGAATAAATAAAGATTGGCTGACATTGTTGGAGTC
TTGGGTTACGATTCCCGGGTTATCGCTAGGCTGTTGGA

>RXN03092

GTGTCCACCACGAATTCTCTGACAAAGCTCGTTGCATCTACAGTCGCCGCTGGCGTCCTT
GGTGCGCTCGCACTTGTGCCTTTTCGCTAGTCTTTCTGGCGTTGCGGTTGCGCGTACCAAT
GACACGATGCAGACCAACCTTTGAGATCTGACGGATGGTCGCGGGCCGGGCGTCACGACG
ATTACTGATTCCACTGACCAGCCGATTGCTTATATTTATGCGCAGCGGCGGTTTGAGGTT
GGGGGTGATCAGATTTCTACGTCGATGAAGGATGCGATCGTTTCGATTGAGGATCGCAGG
TTCTATGAGCATGATGGTGTGGATTGTCAGGGCTTTGGTCGTGCAATCCTGACGAACCTG
GCTGCGGGTGGCGTGGAGCAGGGTGCTTCGACGATTAACCAGCAGTATGTGAAGAACTTC
TTGCTGTTGGTGGAAGCTGATGATGAGGCGGAGCAGGCTGCTGCTGTGGAACCTCCATC
CCTCGTAAGCTCCGTGAGATGAAGATGGCGCTGATTTGGAAGACGTTGTGCAAGGAT
GAGATTCTGACTCGTTATCTCAACATTGTTTCCTTTTGTAATGGTGCTTATGGTGTGAG
GCTGCGGCGCGGACGATTTTCGGTACGTCGGCTGCCGAGTTAACCATTCACAGTCTGCG
ATGCTCGCGGGCATTGTGCAGTCTTCGTCTTATCTCAATCCATACCAATCAGATGCT
GTGTTTGAGCGTCGTAATACTGTTTGGGCGCTATGGCTGATGCTGGCGCGATTTCCCA
GACGAGGCTTCGGCTTTCCAGCAGGAACCTTTGGGTGTCCTGGAAACCCGCAAGGCTTA
TCCAATGGTTGTATCGGCGCTGGCGATCGGTGGTTTTTTTTTGCAA

>RXN03092-downstream

TAACGCTCTTGCAATATCTTTCT

>RXN03094-upstream

ATAGATATTAGAGAGTTAAATAATGGCGCTTGACCTGCAGGAAATTGAGATCAACACTGA
TTGTGTAGGTTGGCGCCCAACAAAGAAAGGGCGTTGAAAG

>RXN03094

ATGAGTTTCAATCACTACCAAAACCAATGAAGCCATGCAGGCTGCTCTTCAGCAG
GCATCCTCGGCTGGCAACCTGATATTCGTCCAGCTCACCTGTTGGCTGCCATCTTGGAG
CAAATGATGGCGTAGCAGCGCCAGTCTCATGGCTACTGGTGTGGATCCTAAGGAGATC
CTCGCAGAGGCCAAGAAGTTGGTTGCTTCTTACCCCAAGGCTTCTGGCGCCAATATGGCT
AATCCAAACTTCAACCGGGATGCCCTCAATGCGTTCACTGCAGCTCAGGAGCTTGCCGGT
GAGTTGGGCGATGAGTACGTCTCAACCGAAGTACTTCTTGCCGGTATCGCTCGCGGAAAG
TCTGATGCTGCGGATCTGTTGACCAACAAGGGTGCAACCTATGACGCCATCAAAGAGGCT

TTCCCTTCGGTTCGTGGATCTCAGCGTGTCACTCAGGATCCAGAGGGACAGTTCCAG
 GCTTTGGAAAAGTACTCCACTGACCTGACCAAGCTTGCTCGTGAAGGCAAGATTGATCCT
 GTTATTGGCCGTGACCAGGAAATTCGTGCGGTGCTCAGGTGCTTAGCCGTGTTACCAAG
 AACAAACCCTGTTCTGATCGGTGAGCCAGGTGTCGGTAAAACCGCCATCGTGGAAGGCCTT
 GCACGCCGATCGTTGCTGGTGACGTTCCAGAATCCCTCAAGGGCAAACTCTGATCAGT
 CTTGATCTTGGTTCCATGGTTGCCGGCGCTAAGTATCGCGGTGAATTCGAGGAGCGACTG
 AAGGCTGTTCTGGATGAGATCAAGGGAGCTAACGGCGAAGTCGTTACCTTCATCGATGAG
 CTGCACACCATCGTCGGCGCTGGTGCTTCGGGTGAATCCGCCATGGATGCCGGAACATG
 ATTAAGCCACTGCTTGCCCGCGGTGAGCTGCGCTTGGTTGGTGCCACCACGCTGAATGAG
 TACCGCAAGTACATCGAAAAGGACGCTGCCCTGGAGCGTAGGTTCCAGCAGGTTTATGTC
 GGTGAGCCAACGGTAGAAGATGCCATCGGTATTCTTCGTGGATTGAAGGAACGCTACGAG
 GTCCATACCGGTGTCGCGATCCAGGACTCCGCACTGGTCGCCGCGAGCTGAACTCTCAAAC
 CGTATATACACAGCCGTTTCTTCTGATAAGGCTATTGACTTAGTTGATGAGGCGACA
 TCACGCCTGCGCATGGAGATTGATTCTTACCTCAGGAAATCGATGAGCTGGAGCGTATC
 GTCCGCCGCTCGAGATCGAAGAGATGGCGCTGTCCAAGGAATCCGATGCAGCTTCCAAG
 GAACGTCTAGAAAAGCTGCGCTCGGAACCTGCTGATGAACGCGAAAAGCTCTCTGAGTTG
 AAGGCTCGTTGGCAGAATGAGAAAACCTGCTATTGACGATGTCCGGGAGATGAAAGAAGAG
 CTGGAAGCGCTGCGTTCTGAGTCGGATATTGCAAACGTCACGGCAATTATTGTCGTGTC
 GCAAAGCTTTCGCTACGGCCGAATCCCTGAGCTGGAAAAGCAGATCGAGGATGCAGAAATCC
 AAGGTCGAGGTCAATGAAAAATGCCATGCTCACTGAGGAGGTACGCCAGACACGATCGCC
 GATGTGGTTTCCGCATGGACGGGCATTCTTGCAGGCAAGATGATGCAGGGTGAGACCGAG
 AAGCTGCTCAACATGGAGCGGTCTTGGGCAACCGTGTGGTCGGTCAGCTAGAAAGCGGT
 AACTGCAGTGTC

>RXN03094-downstream
 TGACGCGGTGCGTCGTTACGCG

>RXN03128
 AACGGACTCGCCATTCCCGACATTGGATTGGTGTATTCCAAACCCACCCGATGAAACC
 CGAACTCCGTTAACGCTGCTCTTGAAGCCGGCTATCGCCACATCGACACCGCCGCGCA
 TACGGCAATGAACGTGAAGTCGGTGAAGCAATCGCAGCATCCGGCATTGGCCGCGACGAG
 ATCACCATCGAAACCAAAATCTGGGTGACCGACTACGGCTTCGAGGAACTCTCCACGCA
 TTCGACAAGGCCACAGGCAAGCTTGGTGTGATACACTGGACATTTTGATCTTGACCAG
 GCAGTGCCAAGCAGCTTTGATCGCACCATCGCCGCTACAAGGCGCTAGAGAAGCTGCTT
 TTCGACGGCGCGGTGCGGGCAATCGGAGTCAGTAATTTTCATGCCAGAGCACCTGGACAAA
 CTCCTTTTGGAAACCTCCATTGTCCCAGCTCTGAACCAAATCGAATGCCACCCCTACTTC
 CAGCAGCGTGACGTGCTTGCCCGCAATGAGCAGCTTGGCATTTTGACTCAGGCGTGGTCA
 CCAATCGGTGGCATCACCTTCTACCGCGACGGACAGCTTCCAAGCACTCTAGAAAATGAG
 GTCATCGCTGGAATCGCCGAGAAGTTGGCAAAACACCAGCTCAAGTAATGCTGCGCTGG
 CACCTACAGCGTAGACGTACGCAATTCCAAAGTCTGTGACCCATCACGCATTGTGGAA
 AACTTTGAGATCTTTGATTTGCAACTCTCCGATGAGCAACTACAGCAAATCGATGCCCTC
 AACACCGATCTGCGCGGTGGCCCAGAACAGAGAACATCACCATGGAAAACCTACTACCGA
 GAAATCCCAGAAGCC

>RXN03128-downstream
 TAAAGGCCCTTAGAGGCGAATGT

>RXN03131-upstream
 AACGCGGCTCGTGAAAGATTACCTGAAAAACCAAGCCCTCCAGCGTCCGCTGCTCGGCTAA
 ACCAGTTGGCTAAACCAAAACGTATTTAAGGAGAAACACC

>RXN03131
 ATGACCACTTCTGTACCTGCATCCACCAAAGCTTTATCTGTGGCTGGCGAAAACCCAGGC
 CTGCGCATCGGCACCGCACCTGACTCGTGGGGCGTGTGGTTCCAGAGGATCCAAAGCAG
 ATCCCTTGGGAGCGTTTTCTCTACGAGGTGCTGAAAGCTGGCTACACCTGGATCGAGCTT
 GGCCCATACGGCTACCTGCCAACCGATGCCAACAGCTTGAAGATGAACTGGGCAAGCGC
 GGCTGAAGCTGTCCGCTGGCACCGAGTTACCC

>RXN03133-upstream

GGCGTCAAGCACGCACTCCACCACATCGATCTTCGCCCCGCCCTCGAATGGGACATCATG
GGATTTCCCGAATCCCCGACACGCTGCCCCATTTTGCTCA

>RXN03133

GTGACCTGCGCGACCCCCCTTACGCCACCACTGCTGTGCCACCTCAATCCACGCCACGCT
CCGCTCACCAGATCCACACATTGACGCTTCCAGGCGCCACCGCGGTCCCTTCCACGCCACT
CCCAGCTACGCAGGCTTTACCCCTCATTACCGACGACACCGCCCGCATGCTGGGCAAC
CTAGCCAAAATTGGCGCGGTTGCCACCTGGGAAAAGACGCTTGTGACGCCGCAAGCTGG
GCCGAATCCCCACCCACCACTCATCGTCGGGGATACCCCGCCCTCGACTGTACGCCG
GACAACGCCTGGTACCAGTTTCGCGTCGGCAAGCATCTTGGTCGCGATGCGTTTCGCGGAA
ATCGTCATGTGCCTTGGCCACGTGTTTTGCCATCATGTCCCCCAGGTATGGTCGACAACC
TGCGCATCTCAGGACGCTGATTCCACCACGATGCTCATTGAAGCCGAGACCGCGGGGCA
TTGGCCATCGCTCGCGTCGGCGGCCCGACCGTCGAGGTGGTTCCCTTCTTCGGCGATGCC
CTTCTCAAAGAGGGGACGCCACTTCTGCTGGTTTCCGACTAGATGTTGTTCTACACGCC
GCCTCAGAAATTGAGGATCTGCTGCGCGGTGACACCACAGCCGTTGTCAGCGGCGCTTG
TCTGTGGAGGATCGCCGAGGTTAC

>RXN03133-downstream

TAACAAATAGGCCCAACAAAGAG

>RXN03145-upstream

AGAGGTGTTTAAATTCCCGCCTCTGCCCCAGATTTAAACTATGATGAGGGATAGCTTCT
CAATTTTCAGGTTTTCCAAATGAAAGAGGTTACGCAC

>RXN03145

ATGCCTACTTATACTTGTGGTTCGCAAAGAATTCGCATTTCTAGGGAAGCCAAGCAACGC
ATCGCTGAGGCAATCACCGATGCCACCATGAATTAGCGCATGCTCCCAAGTATTTGGTG
CAGGTGATTTTCAATGAGGTGGAGCCTGATTTCTATTTTATTGCGGCGCAGTCGGCGTCG
GAAAACCACATTTGGGTCCAAGCAACGATTCTGTTTCGGGGCGTACAGAGAAGCAAAAAGAG
GAACTTCTGCTTCGGCTGACACAAGAGATCGCGCTGATTCTTGGGATCCCCAATGAAGAA
GTATGGGTATATATACCGGAGATTCTTGGTTCCAATATGACGGAATATGGCCGTCTCCTC
ATGGAACCTGGCGAAGAGGAGAAGTGGTTTTAATTCGCTTCCCGAAGGCCTGCGGGAAAGG
TTGACCGAGCTAGAAGGATCGTCAGAA

>RXN03145-downstream

TAGCTCTCGAATAGGCCATTTCT

>RXN03178

CCCACCACCGTGGTCACGGGCACGATGGAAGCCGCCAACATCGAGGGCTCCCGCGTGGGT
GTCGGCGAGGCCGGCCAGTATACCGTTGATCAGCTGCTGCACGGTCTTCTTTTAGCCAGC
GGTAACGATGCGGCGTATATGTTGGCTCAGGAACCTTGGTGGGGATCAAGCAACCCTGGAG
AAAGTAAACGCGCTGGCCAAGGAGTTGGGCACTCAAGACACCTTCGTTGCCACTTATTCC
GGTTTGGATGCGCCGGGAATGTCGACCTCCGCATACGACATGTCATTGATTTATCAGCAT
GCGTGGCAGAACCCGGTTTTTCGAGTCGATTATCTCCACCGATCACATTGATTTCCCTGGT
TGGGGCGACAATGAGGGTTTCCAAGTCTGGAACGATAACGCCTTGTTTCATGAACGATCCT
GATGGCATCGGCGGCAAGACCGGCTACACCGACGACGCGAACCACACCTTTGTCGGCGGT
CTCGATCGGGGTGGTCGCCGCCTCGCCGCCGTAATCTTGGATTCCACCGTCAGCGACATT
CGTCCGTGGGAACAAGCACGATTGCTTATCGACGCCTCCCTCCCCATCACGCCGGGGTCC
GGCGTGGGCCAGCTGGGCTCCGGCAGCGCGAACGATGTGGCACCGGCGACCCAGAAATTA
CCAGAACCCACCGACAACCTGACTTCAGGTGAGGGTGGGTGCGAGAACACGCTTCTTAAG
CTCGTGGTGCCCATCGGAATCATCGTGCTGTTGCTAATCGCCGCACTAGCGTGGACATTC
AGATCTCCCAAGAAAAAGAAC

>RXN03178-downstream

TAGGTGTTCTTCTTCACGACCTC

>RXN02021-upstream

TTGGGTCGCCGAGGAGATCTAATCCTGGTTTGAGTTCAGAGTTCACAGGTTTAAGCCTAC
AAACCTTAGTTAAAACATGATGGAAGCGGTCGATTAAAAA

>RXN02021

ATGAGTGAAAACATTTCGCGGAGCCCAAGCAGTTGGAATCGCAAATATCGCCATGGACGGG
ACCATCCTGGACACGTGGTACCCAGAACCCCAAAATTTCAACCCGGATCAGTGGGCTGAA
CGCTACCCATTGGAAGTGGGCACCACACGCCTCGGAGCAAACGAACTCACCCACGGATG
CTGCAGTTGGTAAACTGGACCAAGATCGCCTCGTCGAACAGGTAGCAGTCCGCACCGTT
ATCCCGATCTGTCTCAACCTCCAGTAGACGCGCACGATGTTTACCTGCGCCTCCACCTG
CTTTCCACCGGCTGGTCCGCCCCACGAAATGCACATGCAAAACACCTTGGAGCTGCTG
TCCGACGTGGTGTGGACAAACAAGGGCCCTTGCCCTCCTGAAAACCTTTGAGTGGGTGCGT
GGTGCTCTGCGGTCCCGCGGACTCATCCACGTCTACTGTGTGGACCGTCTTCCCCGCATG
GTCGACTATGTGGTTCCCCCTGGAGTCCGCATCTCCGAAGCAGAACGCGTGCGCCTAGGT
GCATACCTTGCTCCGGGTACCTCTGTGCTGCGTGAAGGTTTCGTGTCTTTCAACTCCGGC
ACCTTGGGTGCCGCAAAGGTGGAAGGCCGCTGAGTTCGGGTGTGGTCATCGGTGAAGGT
TCCGAGATTGGACTGTCTTCTACTATTAGTCCCGAGAGATGAACAGCGCCGCCGTTTG
CCGTTGAGCATCGGCCAAAACCTGCAACTTTGGTGTGAGCTCCGGAATCATCGGAGTCAGT
CTGGGAGACAATTGCGACATCGGAAATAACATTGTCTTGGATGGAGATACCCCCATTGG
TTCGAGCCGATGAGGAGTTACGCACTATCGACTCCATCGAAGGCCAAGCAAATTGGTCA
ATCAAGCGTGAATCCGGCTTCCATGAGCCAGTTGCCCGCCTCAAAGCT

>RXN02021-downstream

TGACCCATTTTCATAACCAAGTGC

RXC00110 - 5'-Region

ATATCGAATGTCCAGTCACGCTAAACTTCACCCAAGATGAGATTTCTGTGGCACGATTGGGAATAACGAA
CGTAATTTTAAACACTGGAGGAGCTTCCAC

RXC00110 - coding Region

GTGAGCAACAAAGACGGCCTTTTTACTGACGGTAACAGCACGTTTGCACCTAAGGTGGATTCAATTCCC
CTCAGCGATGTGGATAACAGCGTTAGCGGTGAAGCCTCCATCGGCACGCTGATCTCCAACGCAACCTCC
CAAATGTCCAGCCTTTTCCGCGCAGAAGTTGAGCTGGCGAAGACTGAACTCGCAGGCCGAAGCCAAGAAA
GCTGCCATCGGGCGGCGGCATTACAGCGTTGCTGGCGTAATCGCACTGTACAGCTCCTTCTTCTTTTC
TTCTTCGTGCGAGCACTGCTGAGCGAGTGGATTAAGCCTTGGGCAGCATTCTCATCGTGTTCCTCTTC
ATGCTGGTCATCGCCGAGCTCTCGCACTGTTCCGGTGGCGCAAGGTGAAGAAGATGGGCGCTCCGAAG
AACACCATCCAATCGGTCAACCAACTGAAGAACCTGGTCCCAGGTGAGGCATCCGAGAAGCTGGAGAAG
GCCAACAAGCGTGGCCTCTACACCTCCGCGTCTTCCACAGCCCCGGCGCCATCACTGGCGACCAC

RXC00110 - 3'-Region

TAAAAAAGGAGACTTCGATGGCC

RXC01971 - 5'-Region

AGGTCTTGTTTATTTTCGGCTACTGATTACAGTCTGCGCTCCGATAGGATTCTTAGTTTTTCAGTTCAGT
ATCTTTGAGCCACGGCTAGAATGTGAATCCT

RXC01971 - coding Region

ATGTCTAAGAAGAAGCCTCGCCCCATTCCGGTTCCTGCCCAATTTATCCCTGGTCTCATTGATGCGCAT
ACACATTTGGCATCGTGTGGAGGAGATCTTGCGAGGTTGGTGGAAAGGGCCAAGGAGGCGGGCGTCCGAA
AAGCTTTGTACCGTCGGTGATGGTTTGGCTGAGGCCGAGCTTGGCTGGAGGCCGCGCAACAGTTTGGC
AATGTGTTTGTGCTGCGTGTGCGATTATCCGACGAAGGCTGATCAGTTGGATGGGGCTGCGCGTGCGCGG
CTGACGCAGATGGCGGCGGATCCGAATTGTGTGGCCATTGGTGAGACTGGTTTGGATTCTGATTGGATC
AAGCACGATCCAGAGGACACGGCGGCGTTGGATGTGCAAGAGGAGGCGCTGCGCTGGCATATTGATTG
GCAATTAGTGCGGATAAGCCGTTGATGATTCACAATCGTGAGGCGGATGCTGATTTGATGCGAGTGTG
GCGGATGCTCCACCTCCAAAAGATACGATTCTGCATTGTTTTCTTCGCCGTTGGACGTGGCGAAGGAA
GCGTTGGATCGTGGATATGTGTTGAGTTTTCGCGGCAATGTGACGTTTAAGCGTAATGAGGAGTTGCGG
GAGGCTGCTCGTATTGCGCCGATTTCCAGATTTTGATTGAAACCGATGCGCCGTATATGACGCCGGAG
CCGTTTCGGGGGAGTAGGAATGAGCCGTCGTTGATTGGTCATACGGCGCTATGCATTGCGGAGGTTCCG
GGGATGGCTGTGGAGGATGTTGCGGCGGCTTTGAATGAGAATTTTGATCGCGTTTATGGGGTCACAAAT
CTA

RXC01971 - 3'-Region
TAACGTGAGGTAGCTCACAGTCA

RXS00004 - 5'-Region
TTGCACTGTCATGACTGTATCCCGCGAAGAAGTGTCCCTGCCGAGCCGAACCTCTGAACAATGCCTTCCG
GAAGTATTTTCCAATTCCCGATGTAGGGTCA

RXS00004 - coding Region
GTGCTGACTCAATTGATTGAATCATCGATTTTCGACAACGTTGCGAGCAGGGAGTCCTCTGAATTTCTC
GGCCATGCTGCCATCGATCTACTTGCTGGCCTTGCTCTATGAAAAAGCCACTCCCTATGCTCCAGATGAA
GCACTTAGAGTGGCAGTTTATGGCTATATTCCGGGAGAACCCTTGATCCTCACAACCTTACGGTCGCAGCT
GTAGCCGGGGCGCATAGAATCGCGGTTTCGTACGTTGCATCGATTATTTGAAGGCGAAGCATACGGAGTA
GCGGAATTAATCCGACACCTCCGATTAGAGGCAGTATATGAAGACCTTCGGGATCCTCGCCTCCAGAAC
CTGACCATTTTGGCTATCGGCATGCGCCACGGCATTTCAGCCAAGCTCATTTAACAAGACTGTTTCGC
GCTAAATATGGGGTACCGCCGCGCAGAGTTTCGCCGAGGGTATATTAATAGCGCTGCT

RXS00004 - 3'-Region
TGAGGGCACCGCAAGCGTGGCGC

RXS00156 - 5'-Region
ACCGAGAGCGTGGTACGCCTCATTTAGTTTCCTCCTATGAATCTTGATGTGGTTCATGCGTTTTTATGC
AATATCAACCAAAAGTTGGTACGATCCTCAT

RXS00156 - coding Region
ATGAATGAACGCACATCGGATGCATTTGACGCCCTCCTTGCTCTCCTTCGGTGGTCCCGAAGGGCAC
GAGGAGGTTTCGTCCGTTTTTGGAGAATGTCACCTCACGGAAGGGGGATTCCGCCGGAACGCTAGATGAA
GTGGCGGTTTCATTACCACCACTTCGGTGGTATCAGCCCCATCAATGCGCTGAACAGGGAAATTATCGCC
AATGTGGAAAAAGAATTGGCGTCTCGCGATCACAAGCTGCCTGTTTATTTTGGTAACCGCAACTGGAAG
CCGTTTTGATAATGAGGCCGCTGAACAAATGGCTGATGACGGCGTGAAAAACGCGCTGGTGTGGCAACT
TCCGCTTGGGGTGGCTACTCCGGTTGTCGGCAGTACCAGGAAGATATTACGGGCATGATCAAGCACCTG
GAGTCTCAGGGGCAGTCGATCACGTTACCAAGCTGCGTCAGTTCTACGATCACCTCGTTTTGTCTCC
ACCATGGCTCAATTGGTTTCAGGATTCTACGCGAAGCTTCCCGATGAGCTGCGAGATGAGGCGCGTCTG
GTCTTCACCGCGCACTCCATTCCACTGACTGCGGACAATGCTGCGGGAACCCCTGAGGATGGCTCCTTG
TATTCCACACAGGTCAAGGAAGCGTCAGCACTGATTGCTGAGGCTGTTGGTGTGTGATTTTGATGTG
GTGTGGCAGTCCCGCTCGGGTAGCCCGCACACTCCGTGGCTGGAGCCTGACATCGTGGATCACGCAGTG
GAGCTCAACGAGAAGGGTCAAAAAGCGCTCGTTGTCTGCCCTGTAGGCTTTATTTCTGATCATATGGAA
GTCATTTGGGATCTTGATTCCGAGCTGATGGAAGAAGCCGAGAAGCGCAACATGGTGGTTCGAGCGTGTC
GCTACCGTTGGCCCCACCGATGAATTCGCAGCCCTTGTGGTTGATCTCATCGAGGAGGCAGAGCTCAAG
CGCGTTATCGAGCGCCTTGGAAAGCTGCCAGCACGCGGAAGTTCCGTCACGGCGCACCGTGTGGCGAC
GGCTGCTGTGGTACCGCAAGCATAAACC CGCGGGTGAACCCCAACGCTCGCTCAGCGGCGCCAGCT
GCCAAC

RXS00156 - 3'-Region
TAGGAGTGATAGTCCCTCGCAAA

RXS00166 - 5'-Region
GGCGTTTAGCGATCTTCAACATCGAGCAACCAGCGCCAGCGCTTTTACCCAAGGCAGCAGACTTATCA
CGATGTCCGACCTGGATATCCGGCTGAGGCC

RXS00166 - coding Region
GTGGAGTTAGCCGTGGGTTTGGCCGAGTCCTGGATGTGCGTGAGGTACCGGAAAACTAACCAGTGAG
CTAACAGCTGATCAGGTCCTAGCCCTTGATCCAAGCATGGACATGTTGCGGGTGTTTCGCTCCGCGCTT
CCGGCGGTTCCCTGCTGGCAAGCGACAGCAGAACACACAGGAATACGTGACAACGCGGTTGATCTGATT
ACGTGCGCACAAACGTGGCATTGGGTTGACGTGACGGCTGCCTCAGCGGAATTTGATCGGGTGATTGCA
CCTGAGGGTGAGTCCTGCTCGTGTGGAATAACCTGGACACCTCCATCGCGTGGGTACACCGACTCAGT
CGCATTATGCATGCCGGCGATGTACTCAAGCCGGGATTACCCCGAGAAACCGCAGCTCCCTGGATAATT
GATCGAGAAATTCGCACCACGTGGAATCAGCACCTCACCCCTGAAGAAATCATCCAGCTCGCTCACACG
AGGTCCTACTGGTTAAACGCGTCAGAGAAAATCAAAGAGCGTGTTGATCAGAACCTTCAGTGGTATCTC
TACGAGCATTTGGGTTTTCAGTCCCGACAATCCAGTGGAACCTTCCCTATCGCTGTGATGCATTTTTACTT
TCACGTTCCGGTACCCTGGCAGGCAGATCTTCCAATCTT

RXS00166 - 3'-Region
TAGGAGCCCTCGCCATGTACCTG

RXS00197 - 5'-Region
GTCGATGATATTTTGGCAACCGAATCTGAGGCACGCGCGCTGCGAATGCTTTGATCAACCGGTTGGCA
ACCAACTTGTAAGCTAAGGAGCTTCCGCCTC

RXS00197 - coding Region
GTGGCAGCCTATCTTCTTGGTGTCGTATTATTTTCTCGGCATCGCAGTAACCATCGCGCTTCACGAG
TGGGGGCACTTCATCACAGCGCGCATTTTCGGAATGAAAGTGCGGCGTTCTTCATCGGTTTCGGCCCG
ACGGTGTGTGCCAAAAGACGCGGCGAAACCGTGTACGGCCTTAAAGCGATTCCGGTCGGCGGTTTTTGT
GACATCGCGGGGACTGCCCAAGATGAACCTTGATCCGGAAGACCTGCCGCGCGCCATGTATCTAAAG
CCCTGGTGGCAGCGCATAATTGTGCTTTCCGCGCGCGTGATCATGAATCTGATCGTCGGCTTTTTGGTG
CTTTACGGCGTGCGGTGAGCTCCGGAATCCCGAATCCGGATGTGGATACCACCGCGACAGTCGACACC
GTTCACTGCGTGCCGAAACCCAAATTTCCGCAACTGAACGTCTCTCTGCGTAGGTTACAGGCCAGCG
GGCGACGCCGGCATTGAGCACGGCGATAAGATTTTGGCCGTCAACGGCCAAGAGATGGCAAGCTTCACC
GCCATCCGCGATGCGATCCTCGAGCTCCAGGCGAAACGGCAACGCTGACGATTGAACGGGAGGGAACG
CTTTTCGACGTGACCTCCAGGTTGCCTCTGTACCCGCTCTCGCTCTGACGGTTACAGAAATTACCGTC
GGCGCGGTGGGCATGTGAGCCTTCCACCGACCGATGTGTACAAAAATACGGCCCAATCGAGGGTGTG
GGAGCAACTGCACGTTTACCGGCGACATGATCAGCGCCACGTGGGATGGCCTCAAAGCCTTCCCGGCG
AAAATCCCAGGGGTCGTGCGATCCATCTTCGGTGAGAGATGTAGAAAGCCCATGAGTGTGGTG
GGCGCCGTACGCAATCGGCGCGCAATTTGTGCAACGTTCCATGTGGGACATGTTTCATGATGATGCTGGCC
AGCCTGAACCTTCTTCTCGCGCTGTTTAACTCGTGCCGCTGCCACCACTTGATGGCGGACACATTGCC
GTGGTGATCTATGAAAAATCCGCGACTTCTTCCGCAAACTGCGCGGAAAACAGCGGGCGGCCAGCG
GATTACACCAAACTAATGCCCGTACCGTAGCTGTGCGAGCCTTGCTGATGACAGTGGGAGGCCTGGTC
ATTGTCGCGGATGTGGTCAATCCCATCCGACTCTTTGGC

RXS00197 - 3'-Region
TAACGATACGGAATTGAACTGCC

RXS00288 - 5'-Region
GGCGTGCTAAAAAGCACGTCAAATACAGAATCGGCAGATTACATCGCTGAGCAGAGAAAACACGGGCA
TGAAACGTACCCAAGGGCTAACATCGGGGGC

RXS00288 - coding Region
ATGAGCGCGCAAAATGGATACCCCTGATCCCACTATGTCTGCTGTTGCAATGTTAGATTCCATCCCTTCT
GATCAACCAGATTTCTGATCGATGTAGAAGTAGATCGACCAACTCCCGGACCACATGATCTGCTAGTC
CACATTGAGGCGGTCTCAATTAACCTGTTGATACCAAGGTACGCATCGGGCCGGGAAGCAAAAGCAT
CCTAAAATTTTAGGTTTTGATGCTGCAGGTGAGGTGGTGGCTGTTGGATCGCAGGTCACGCTCTTCAAT
GTTGGTGACAAAGTGTTCTACGCAGGATCCAATCAGCGTCCAGGAAGTAACGCAGAGTACCAGGTGGTG
GATGAACGGCTGGTGGGTACGCACCACAAAGCTTGGGGGCACACGACGCCGCTGCTCTCCCACTTGTC
GCGCTCACTGCATGGGAGTCACTTTTTGACCGATTGGGAGTAACAGTCACTACTGGAACACTGTTG
GTCTTGGGCGGTTTACAGAGGTGTGCCTTCAGCTCTTATTCAACTTGCTCGAGCTCTCACTGGTCTGAAA
GTAGTGGCAACAGCTTCTCGCCCTGAATCACAAGAATGGGTGACAAAGCTCGGTGCTCATGAGGTGATT
GATCACTCCAAGGATTTGAGTGAGCAAATCTCCGACGTGGATTTTGTTCAGCTCGTGGACTACTGGG
CGTGAAGTAGAGCTCGCCACGTTGATGAAACCCAGTCCACCTAGTGCTCATCGATGATCCAGTGGAT
CCCAATTTGGGCGCTTTAAGCAAAAAGCGATCGCTTTGCACTGGGAGTTTCATGTTTACCCGCGCTATG
TTCAACACTCCTGATATGGGTGAACAAGGGAAAATTTGAAATAAGATCGCCGACATGGTTGATCGGGGT
CAGTTTGAGTCCGTGACAGCAACGGTGCTGGATGGGCTCAACGCTGCAAACATCATGGAGGGGCACCGG
CTCGTTGAGCAGGGTAAAACCTCAGGAAAAATTGTTGTGAGGGTA

RXS00288 - 3'-Region
TAAAGAGGACTTGAAAAATGCAC

RXS00624 - 5'-Region
TCCATGACGTTTTGAATGGAAAATCTCCATTTGTGGAGTTAGAAGAAGACCACTAGTTTTCAACAGGAC
GACAACGGCCGACATGCGACAATACAATGC

RXS00624 - coding Region
ATGTCCGGCCGCTCTTCTGTTTTCAGTTTCTAGTATTTTCGACCAGACCCGATCGGCGGCTGACAGGCTC
ATTCAGACCTGCGAGCCGACGGCATCGAGGTCTCATTACTGTGCGACCCCGCATCGATGGGGACTGG

CGTCTCGCCAAAGACAAAGGGACCCCTCGCGTGGATGGAACAACAACGCGAACGCGGCCACGAACTCATC
CTCAACGGTTTTGACCAAGCAGTTCAGGGACGTCGCTCAGAATTCGCCAACCTTGAACGGCACGAAGCA
CGTCTTCGCCTTACCGGTGCCATTAGGCAAATGCAGAAAATTGGCTTCGAATTCCAAATCTTTGCCCA
CCTCGTTGGAGAATGTGAGAAGGCACCTTCGCGGTACTCCCAGAATTTGATTTCAACGTCGCCGCCCTCG
ACCAGGGGATTACATAACCTCGACACCGGCGAATTCCTGGCGTGTAGAAACCTCTCCGTGGGTGAAGGT
TTTGGTGTGCAAAATGGTGGCGCAAGAATGTCATCAAGGCTGTCACTCGTGGAGCGGAAAAAGGAAAT
ACAGTGCCTTGTCCGCATCGGCGCGAAATCTCACCACCCCTAAAGTCGCAGCTGACTTCCGGGAAGCT
GCATTAGCTGCCTTGGATTGGGTGCTCAGGTGCAAACCTATTCTCAGGCGGCCGCACAACCTGGCC

RXS00624 - 3'-Region
TAGTTGGGGAGGTTTCGGGGCACC

RXS00949 - 5'-Region
GCTCAAGGATCCTTCCTGGGCAAACCAAGCAGCCCTCGCACTAGGTGCGGAACCCAGGTATGTTACCA
ATACGACTACGTACTTTAAAGGAGAGTTGAC

RXS00949 - coding Region
ATGAAGGTTTTTCATCATCGGCGCTGCGGGTGGCATCGGCAATCGACTTTCCAGCCTGCTTCACGCCAGG
GGAGATGCAGTTAGCGGCATGCACCGCAATCTTGAGCAGGCCTCAAAAATCACAGACACTGGGGCAACT
GCCGTACTCGGGGATCTCATCCACAACAGCAGGAGGAGCTTGCGGAGCTTTTCCGCGGTACCGATGCC
ATCGTATTTTTCTGCAGGCGCCACGGAACAGGGCAAGAAAATACCACGCTTATCGACGGCGCCGGCCTC
CGTAAAGCCGCGGACGCTGCCAGCGCGGCCAACGTTTTCACGCTTCATCTGGTCTCTGCGTTTCCGGAA
TCCTCCCGCGGGGAGAACACCACCGAGAATTTGAGCACTATATGAAGGTGAAGAAGTCCGCCGATGTC
TACCTCAGTCACACTGACCTAGACTGGGTATTGTCCGACCAGGCGTGCTTCAAGATGAGGCAGGGGAT
GGTTTAGTCACTGCTGGCTTAGCGATTAATTACGGCAATGTTGCTCGCGATAATGTCGACGCTTCATT
GATGAAGCTCTGCATCAACCGCAGTTGTCAAAGATCATTGTTGAACCTACCGACGGTTCAACTCCGGTG
CGGAAGCCGTAGAACGCCTCATCAAG

RXS00949 - 3'-Region
TAAAGACGAAAAGAGGGAGAATG

RXS01000 - 5'-Region
CTTTCTATGCCTACGCGGATGTTTCCGTGATCATTCTGGAAATCCTCATCGTGGTGATTGTCATTGAAG
TAATCTCCAACGCACTTCGAAAGAGGCTGGT

RXS01000 - coding Region
ATGAGCACCTTAACCTCTCACCGCACAGTACCGGCCCCAGCTCTCCCCGGCGCGCCCCAACAACTG
GCGCGCAATATCGTTGCAATTGTCGCTGCGCTGATTGTCCTTATAGCTACCGGCACGCTCAAGATCGAG
TGGAATGAGCTTCCGCAGATGCCCCGCGCAGGTGTGGCATTACTTAGAGCTGATGTTAGCGATCCCGAT
TGGTTCGAAGTTTGGCCGCGCCGTCCAGGAAATGTGGCGTTCCATCGCCATGGCGTGTTGGGTGCCATT
TTATGCGTGGTGGTCTCTGTCCCTCTGGGAATGTTGGCTGCCCCGCGGGGTGGGACCTTATTGGCTGCGT
ACCGTTTTACGGTTTCGTGTTTCGCGGTGATTTCGTGCGTTCCCCGAAGTGGTTATCGCAATTATTTTGCTA
ACTGTCACCGGCCTAACTCCTTTTACTGGTGCCTCGCATTTGGGTATCTCCGGTATTGGACAACAGGCA
AAGTGGACCTATGAAGCCATTGAGTCCACTCCCACCGGCCGTGAGAGGCAGTGGTGCAGCGGGTGA
ACTACGCCGGAGGTTCTGCGGTGGGCGTTGTGGCCACAGGTTGCGCCATCCATTGCATCTTTGCCCTG
TACCGCTTTGAGATCAACATCCGTACCTCTGCGGTATTGGGCATCGTTGGTGCAGGTGGTATCGGTAGT
ATGCTTGCCAATTACACCAACTACAGGCAGTGGGACACCGTGGGCATGCTGCTCATCGTGGTGGTGTG
GCAACGATGATCGTCGATCTCATCTCCGGCACCATCCGCCGCGCATCATGAAGGGGGCTAGTGACCGT
GTCGTGGCACCAAGCAAC

RXS01000 - 3'-Region
TGACGCTCCACCAAGCATCCGCA

RXS01002 - 5'-Region
GACTGCTGATACCGCACAGGATGAAATCACTCGTTACGGCGAGATCCTGAAGAAGTTCTCCAACATAAT
TCCCTGTTTCCAATACTCAAGGTGTGCGCAT

RXS01002 - coding Region
ATGAATTCTGATGCTTCGGCTACCACCAACTCCTGGGCTATCAACTTCGACCATGTGTCGGTGACGTAT
CCCAATGGGACGAAAGCCCTCGATGATGTTTCCCTCACCATCAATCCCGGTGAGATGGTTGCCATCGTG
GGTCTGTCAGGATCGGGTAAATCCACGCTGATTCGCACGATCAACGGTCTTGTCGCCGCTACGGAAGGC

ACCGTGACGGTGGGGCCGCATCAGATCAACACCTTGAAGGGGAAAGCACTGCGTGATGCCCCGTGGGCAG
 ATCGGCATGATTTTCCAGGGGTTCAACCTGTGCGGAACGCAGCAGTGTGTTCCAGAATGTTTTGGTGGGC
 CGTTTCGCGCACACAGCGTGGTGGCGTAACCTCCTCGGGTTTCCACGGAGCACGACAAGCAGATTGCT
 TTTCACGCGTTGGAGTCCGTGGGCATTTTGCACAAAGTGTGGACCCGAGCTGGTGCTTTGTGGGTGGA
 CAGAAACAGCGCGTTGCTATTGCGCGCGCCTTATCGCAAGATCCGTCTGTATGCTGGCAGATGAGCCT
 GTGGCAAGCCTTGATCCGCCAACCGCGCATTCCTGTATGCGCGATCTAGAAAACATCAACAACGTGGAA
 GGCCTCACCGTGTGGTGAACCTTGCACTTGATTGATTTGGCTCGTCAATACACCACAAGGCTTGTGGGT
 TTGCGTGCCGGCAAGCTGGTCTATGACGGTCTATCTCTGAGGCCACCGATAAAGACTTTGAAGCTATC
 TATGGTCGCCCCATCCAGGCTAAAGACCTGCTAGGTGATCGCGCA

RXS01002 - 3'-Region
 TGACCACGCCTTCTTCTACACTT

RXS01003 - 5'-Region
 AGCTGGTCTATGACGGTCTATCTCTGAGGCCACCGATAAAGACTTTGAAGCTATCTATGGTCGCCCCA
 TCCAGGCTAAAGACCTGCTAGGTGATCGCGC

RXS01003 - coding Region
 ATGACCACGCCTTCTTCTACACTTATCCACAAAAGCCTCGGGCTGGGGTAAAGACCTATCTCATCATC
 GCGCCATCGTTGTCTTACCGTGGCAACAGCAACCCAGCGCTAGGTGGCATTGAGCTTGATTTGCGTT
 TCCATTGTGCGAATTGGCGCAATGGTGCCAAACAACTCCTGCAAATGCTGCAGCCCAACTTTGCGTTC
 TTGCCTCGTACGTGGCTTCCCATGTTGGAAACCCTGCAGATGGCGCTTGTGGAGCTGTCTTGTCTGCT
 GCCGTATCGGTGCTTTGACGTTGTGGGCAGCGCAGGCAACCAACACCAGTGCATTGGTCTGGCATT
 GTCCGCACCATCATTAACGTGGTGGCGCTCTGTCCCGACTTGGTGTATGCCACCATCTTGGTCGCCATG
 GTTGGTGTGCGCGCATTAACGTGGCATTTTGACGCTGTTTCTGTTCAACCTGGGCATCGTGGTCAAGCTT
 GTCTCTGAGGCCATTGATTCCACTGAGCATCCCTATATGGAAGCAGGACGCGCAGCAGGTGGATCACAG
 TTCAAATCAACCGAGTCTCCGCGCTTCTGAAGTCATGCCGCTCTTTGCCAACCAATGGCTCTACACC
 CTAGAGCTGAATGTACGCATCTCCGCCATCCTTGGCATCGTGGGCGCAGGTGGCATCGGCAGGCTGCTT
 GATGAACGCCGAGCTTTCTATGCCTACGCGGATGTTTCCGTGATCATCTGGAAATCCTCATCGTGGTG
 ATTGTCAATTGAGTAATCTCCAACGCACTTCGAAAGAGGCTGGTA

RXS01003 - 3'-Region
 TGAGCACCTTAACCTCTCACCGC

RXS01114 - 5'-Region
 TTCGGTGAAGATATCCGCAAGCTGGTGTGCCGCAGCTTTTAGAAACGGCTCAAGCAATTTGACAGA
 TCTCTCTGCACTCTAAATTAAGGATCAAAA

RXS01114 - coding Region
 ATGAACCTCAAGATATTGTATCTGTTCCCATTTGCGCACCCAGTTGGTGCTTACGGCGGATCCTTC
 ACCGGCGTCCCTGTTGAAGAATTGGCCACCACCGTGATCAACGCGATCGTTGAGGCAACCGGCATCACC
 GCGACGATGTGGACGATCTGATCCTCGGCCAGGCATCCCCAACGGTGGCGCTCCAGCACTGGGCCGT
 GTTGTGCTCTAGATTCCAAGCTTGCCAAAACGTTCCAGGCATGCAGCTTGATCGCCGCTGTGGTTCC
 GGCCTGCAGGCAATCGTCACCGCTGCTGCACACGTTGCATCCGCGCTGCTGATCTGATCATCGCAGGT
 GCGCAGAATCCATGAGCCGCGTTGAGTACACCGTGTCCGGCGATATCCGTTGGGGTGTCAAGGGCGGC
 GACATGCAGCTTCGTGACCGCCTTGCAAGACGCGAAACCGCTGGCGGACGCAACCACCGATCCCT
 GGTGGCATGATCGAGACCGCTGAGAACCTGCGTCGCGAATACGGCATCTCCCGGAGGAGCAGGACAAG
 ATCTCCGACGCTCCAGCAGCGTTGGGGCAAGGCTGCTGATGCGGGGCTTTTCGACGACGAGATCGTG
 CCAGTACCGTCCCTGCCAAGAAGCGCGGCCAGGAGCCAACCATCGTTTCTCGAGACGAGCATGGTCTGA
 CCAGGAACAACCGTCGAAAAGCTTGCTGCTTTGCGCCCCATCATGGGCCCGCAGGATGCGGAAGCAACC
 GTCACCGCTGGCAACGCGTCCGGCCAAAATGATGGCGCTGCTGCCGTATCGTGACCACTCGCGCCAAG
 GCCGAGGAGAAGGGCTGCGCCAGTCATGCGTTTGGCTGGCTGGTCTGTGGCTGCTGTTCCCCAGAG
 ACCATGGGTATTGGACCTGTTCTGCCACCAAGAAGGTCCTGGATCGTTGGGCTTACCCTGGAGGAC
 ATCGGCGCGATCGAACTCAACGAAGCTTTGCGAGCTCAGGCACTGTCTGTGCTGAAGGAATGGAACATT
 TCTTGGGAAGATGAGCGCGTCAACCCACTGGGTTCGGTATTTCCATGGGACACCCAGTCGGTGCCACC
 GGTGCTCGCATGGCAGTAACCTTGGCTCACCGCATGCAGCGTGAAAACACTCAGTACGGACTGGCCACC
 ATGTGCATCGGTGGCGGCCAGGCTTTCAGCTGTCTTTGAAAAGGAGAAC

RXS01114 - 3'-Region
 TAAAAATGGCTATTTTGCACAGC

RXS01205 - coding Region

GTATCGGCCTATCCGCCGCCATCATCGCAGCGGCTCTCGTAGGAATTTGCGCGGGAGTTTTGCCCCAT
AATTTTGAACCCTCGCGAATATTTATGGGCGATTCCGGCTCCATGCTCATCGGCCTGCTGTTGGCTGCA
GCATCGACCTCAGCGTCAGGAAAAATCAACATGAGCCTGTATGGCGCAGCTGATTTTATCGCATTGATC
TCACCCATCATCGTTGTTCTCGCCGCCGTGGCCATCCCACTGCTCGACCTCGTGATGGCAGTGGTTAGG
CGCGTGGGCGAGGGGAGCATCACCTTTTCCCCGGACAAAATGCATCTGCACCACCGACTGCTGTCCATC
GGACACACCCATAGGCGCGTGGTCTAGTGCTCTACACCTGGGCGAGCGCCGTGGCATTTCGGCGCAGTG
AGCTTCTCCGTCGTTCCGCCACTGTTGCCACCGGATCGAGCATCTGTGGCATCTCATCGCCGTCGCT
GTCACAGCCGTGCCAGTGATGAAAAGCCGGCGAGCCGCCAAACTTGAT

RXS01205 - 3'-Region

TAAGTGATTGTCACTTTGGATTG

RXS01223 - 5'-Region

GCGGGAGTGGACGGGCCGAGCCATCGGGGCGACAATCACGGGAGTTTTCAACGTGTCAAGGATGCTC
ATGGCACCATCTAGGCGCGCCTGCCATAGG

RXS01223 - coding Region

ATGACTTCCGTGAGTTTTTTGTCTAAAAATCCAAGCACTGTTTGCCCCAAGCCTGAACTTCCCGCCGCC
AAATGGCTGGTTCGTGGGCCTGGGCAACCCCGCGCCAAGTACGAATCCACCCGACACAACGTTCGGTTAC
ATGTGCCAAGACATGCTTATCGACGCCACCAGCAGCAGCCCTCACCCCGCCACGGGCTACAAGGCC
CTCACAACGCAGCTCGCACCAGGGGTGCTCGCCGTTTCGATCCCACTTTTATGAACCACTCCGGCCAA
GGTGTGCGACCGATCGCCGCAGCGTTGGGTATCCCAGCAGAGCGCATCATCGTGATCCACGACGAGCTC
GATCTGCCCCTGGAAGAGTACGCCTGAAAAAGGGCGGAAACGAAACGGTCACAACGGCCTGAAATCC
CTCACGGAAGAGCTCGGCACCAGAGACTACCTGCGCGTCCGCATCGGCATTTACGACCAACAGCAGGA
ATGGCCGTGCCGACTACGTTTTGGAACAGTCGATCACGACCAACAGGCATTGAACTTGCCGCCGAG
GCAGTGGAATTTGCTGCTGGCCCAGGGATTATCTGCTGCGCAAAACGCTATCCACAGCCGC

RXS01223 - 3'-Region

TAGATTGCTAGAGATTCCCGCAC

RXS01269 - 5'-Region

GATTATCTCTGCGCCGATTACAGCTGGCAATAGCAGCAGTTGTATTGAGAGCTCATGGTCGTCCGATTCT
ATTTTCGTCAACCACGACCTGGGAAAGACGGT

RXS01269 - coding Region

GTGGTATTTGAGATGATTAAAGTTTGAACCATGCTTGAACCAGATGAAAAACATGTAAGTATGAACAG
CGTCTAACTAAAGTTGGAAAGCTTCTGCGGGAAACGAGTTTAGATGAGTTACCTACACTCTGGAATGTA
TTTAAAGGTGATATGAGCCTTGTAAGGCCCTCGACCTTTGCTTGTAGCTATCTGGAACATTACTCTTCT
GAACAAGCTCGACGCCATGAAGTTCGTCTGGGATTACTGGTTTGGCTCAGGTGAATGGCCGTAATCAA
ACTACTTGGGATGAACGACTTAAGTTGGATGTGCAATATGTGGATCGCTGTAGTTTGAAACTAGATTTT
AAAATATTAATCGCCACTGTAAAAACAGTTCTTTCTAAAAAGGGCATTAGTAATGAAGGTCATGTCAG
ATGCCATCCTTCATTGAAGAAAGAAAA

RXS01269 - 3'-Region

TAGCAGGTAAAAATTTACTTTC

RXS01421 - 5'-Region

TTGATGCACGTGCAGAAATCGTCGGCGGTCCGTGGCACCCATCTGTAAAGGGAGACTCGGTTACTGCAG
GGATCCTGCGAGATCGAGTAAACGCCTAAAG

RXS01421 - coding Region

ATGACGTGAAAAGCATTAGCGGCAAGCGCCGAATCTGCCGTCGCTCACTGGAGCGCGGTGGCTCGCG
GCGCTCGCTGTTTATTTTTTGCATGCGTTGGTGTTTTTGTGCGGTGTATCCGTTCCAGCAGTCGGAAC
TTTGCCACAATCCATAAATTTGTCCCCATGCAGCTGGGTTTCAGCTGGTGTAACTTCTTCTTTATCTTG
TCCGGATTTTTGATCTATTGGTCAAATAGCCAGCTCAAGGGCATGAAGAATGTGCTGTATTACTGCAAG
CGCCGCATCACCAAGATTTATCCCATGCACTTGATTGCGTTGCCGATGTTTATTGAGGCGTCGGCGAAG
TTCACGACTACAGGCATTACCTGGGTGCTGATTTTGCAGGAG

RXS01421 - 3'-Region

TAAAGCTGTGGCTGCGGAATGCG

RXS01491 - 5'-Region

AACGGTGTGAAACACATTGAAGTGTGCGTTGGGTTATCCGCGCAATGGGAGCATTGGTCTGGGCAGCAT
GTGTGGCCATATCCAGTGATGGAGGTGGACA

RXS01491 - coding Region

ATGCTGGATGAGTCTTTGTTTCCAAATTCGGCAAAGTTTTCTTTCATTAAAACTGGCGATGCTGTTAAT
TTAGACCATTTCATCAGTTGCATCCGTTGGAAAAGGCACTGGTAGCGCACTCGGTTGATATTAGAAAA
GCAGAGTTTGGAGATGCCAGGTGGTGTGCACATCAGGCACTCCAAGCTTTGGGACGAGATAGCGGTGAT
CCCATTTTGCCTGGGGAACGAGGAATGCCATTGTGGCCTTCTTCGGTGTCTGGTTCATTGACCCACACT
GACGGATTCCGAGCTGCTGTTGTGGCGCCACGATTGTTGGTGCCTTCTATGGGATTGGATGCCGAACCT
GCGGAGCCGTTGCCCAAGGATGTTTGGGTTCAATCGCTCGGGTGGGGGAGATTCCCTCAACTTAAGCGC
TTGGAGGAACAAGGTGTGCACTGCGCGGATCGCCTGCTGTTTTGTGCCAAGGAAGCAACATACAAAGCG
TGGTTCCCGCTGACGCATAGGTGGCTTGGTTTTGAACAAGCTGAGATCGACTTGCCTGATGATGGCACT
TTTGTGTCCTATTTGCTGGTTCGACCAACTCCAGTGCCGTTTATTTTCAGGTAAATGGGTACTGCGTGAT
GGTTATGTCATAGCTGCGACTGCAGTGACT

RXS01491 - 3'-Region

TGAACTGGATGGAGAGGATACCT

RXS01572 - 5'-Region

CTGCTGTGCGCAGGCATCACCACTACTCCCCAATCGCTCGCTGGAACGTTAAAGAAGGCGACAAAGTA
GCAGTCATGGGCCTCGGCGGGACTCGGACAC

RXS01572 - coding Region

ATGGGTGTCCAGATCGCTGCAGCCAAGGGTGCTGAGGTTACCGTTCTGTCCCGTTCCCTGCGCAAGGCA
GAACTTGCCAAGGAACCTCGGCGCAGCTCGCACGCTTGCGACTTCTGATGAGGATTTCTTCACCGAACAC
GCCGGTGAATTGCACTTCATCCTCAACACCATTAGCGCATCCATCCCAGTCGACAAGTACCTGAGCCTT
CTCAAGCCACACGGTGTCATGGCTGTTGTGCGTCTGCCACCAGAGAAGCAGCCACTGAGCTTCGGTGCG
CTCATCGGCGGCGGAAAAGTCCTCACCGGATCCAACATTGGCGGCATCCCTGAAACCCAGGAAATGCTC
GACTTCTGTGCAAAACACGGCCTCGGTGCGATGATCGAAACTGTCGGCGTCAACGATGTTGATGCAGCC
TACGACCGTGTTGTTGCCGCGACGTTTCAGTTCGCGGTTGTCATTGATACTGCTTCGTTTGCTGAGGTT
GAGGCGGTT

RXS01572 - 3'-Region

TAGGTTTACTGAAGTTCAGACTT

RXS01642 - 5'-Region

TTGGAATCACTGTGTCTTGCAGCTAGTCTGCCACTCGCACTGCATTTGCTGGATGTATTTGGAATGCTG
CGCGGTCTTGATATTGGATTGCGGTGGATAAG

RXS01642 - coding Region

ATGCGCAGACTCATCGCGGTTAGCTTGGCCGCTCTGTTTATGTTGGCTTCCACTCCAGCGACGAGGGCA
CAGGAAGTAGAAGCTCTCGCTTGCCCCGAGGTAGCGATCGCCGATCCTTCCTCCGAGTTTTAGATGAA
CACCTTTCGAGTCATTATCCCAAGCTCACCAACTAGCAACTGGCGCCGGTGTGATGGTGGCAGTCATC
GACACCGGAGTATCCCTGCATCCACGTCTGCCCCACTTAATTCCCGGCGGTGATTTCTGTTGGGCGCCAC
CAAAGCCCCGATGTGCCAGGTGAACTTATCGATTGCGACGGCCACGGCACCATCGTCGCCGGAATCATC
GCCTCCCAAGGAAACCCCGGCACCGGCTGGCCATATGACGGCAGCTCCGATCCTTATATCGGTGTGCGC
CCGATTCCGGAATCATCTCCATTAAACAAACAGCTCATATGTGCGTACTCGTGAAGATTCCAACGTC
GGAACGCTGAGCACCCCTGGCGGAATCCATCCACCGAGCTCTCGATTCCGGTGCCACGTGATCAATATT
TCCGTGGTGTCTGTTTGCCCCAATCACCCGACGAGGCCGATCGTTCCAGCCTCTGACGGATGCTCTT
AACAGAGCAGAACTTCAAGGGGTGATAGTGGTGGCAGCAGCAGGAAACCTCGGGCAGGATTGTCCAGTT
GGATCTACCGTTTATCCTGCACATTTCAGACACTGTGCTCTCTGTGTCGGCAGTTTTGATTCTCACACG
CTTGAGAATATTCCATGCCTGGCAACCAACAAATCCTCTCTGCACCAAGCCACATTACGGCTGGTCTA
TCACCGCGTGGCGACGGCTTCGCCAGCCACATGATCACCACCGCTGGCGAAAGCCCCCTTCGAGGGCACC
AGTTTTTGCCGCTCCAGTTGTCAGCGCCACAGCTGCACTGCTTCGCCAGCATTTTCCCTTTGCCACACCC
TATGAAATTTCGTGCACGAATCTTCAACAGCATCGACCCGTGCAAGAGGCGCTATTGATCCCTACCTGGCA
CTTACTCAAGAAATCTATCCCACTCTCCCTGGTTTCATGAGATCGCACTAAGTGTTCACCGCCCGG
GATGATTCTCCACGGGAGCGGGGATCCTAGTTACCGCAATCATTGTTGGGTTGCTCGCAGTGTATAGCT
GTGCTGATGGGACTACGCCGAATTCATCATCACTCGGCCTTTCAAAAAGCTAGCTCAAGTGTTATCACT

RXS01642 - 3'-Region

TAATCTATGAGGCACCGTTCAGA

RXS01902 - 5'-Region

GGCTGGTCCGAAGTGCAAACCTTCAACACCGGCACCTACGGTGACAACCTGGAACCTTCCTCTTCTTCGGC
GACACCCAGCTGTACAACACCCACTCCAACC

RXS01902 - coding Region

GTGCAGAAGAAGTCCAGAAGTGGGCAAACAACCTGGAACGGCGGCCACCAATCGAAAACCCAGGAACC
TCCTTCATCCTCTCCGCGGGTGATCAGGCAAACCACTCCAGCTGGGACGAGCACTCCGCATACATCTCC
CCAGAAACCCCTGCGCAACTACCGTCTGGCCGTGAACAATGGAACACGACCACTACAACTACGACGCC
TACAACCGCATGTACCCACGCCCTAACAGGTCGATGAGAACTACTTCTTCGAGTACAACAATGCACCTC
TTCCTGTCCCTGGACTCCAACGACTACTTGGACATCGACGACGACATCGCATTCTTCGCGACACCGTC
GCAGCACACGGTGACGACAAGGACTGGATCGTCTGACCTACCACCATTCACCTTTCTCCCAGGCCTAC
CACATGGATGACGCTCGCATTAAGTACCAGCGCGAACGCCTCACCCCACTGATCTCTGAACGAACGTT
GACTTGGTTCTCGGTGGACACGACCACATCTACACCCGCTCCCACCTGATGAACGGCTTCACCCAGTC
GATGCAGGCCGCGAAGCAGTTGTCTGGTGAACCTCTGAACCTAAGGCCGGCGAAGTTGTTTACCTTGCA
ACCAACTCTTCTCAGGCTCCAAGTCTACGACTTCTACGACTTCCAGCTCGGCCAGCGTTACGACACC
GGACTGGATTTCCAGGAAACCGTCGATCAGAAGAAGATCCGCACCTACACCGCAGTCTGGAACCAAGGAC
CAGGTTCCAGGACTACACCAACGTTGAACGACCCAGAACGCTGACTGTGACCACTAAGGACGCAGTC
TCCGGCGAGCTGGTTGACCAAGTTCACCTGAGCAAGCAGGACCGCGACGAAGAATCTGAAGTCCAGTT
GAAGATGACAAGGACGAGACAACGCGACCGGCTCCTCCAACCTTGGTCTAGCTGCTATCTTGGCTCCA
GTTCTGGCCATCTTCGGTTTCGTCGGTGGACTCTTTGTTGGCGGCGGCTCCCTCGCTGAGTTCTTTGCC
AACCTCGGCGTGAAGATGCCTTTC

RXS01902 - 3'-Region

TAATACTGTCTGAGATTCAAGCA

RXS02453 - 5'-Region

AACCAACAAAGGTCATCTCAACCGGCTTAAGAAAATTCTGCCAGCTTTCTGCTGATTGAATCGTGCCAG
CTCAGGGCATATCTCACCTAAAGTAAACACC

RXS02453 - coding Region

ATGAAATCAATCTTCAATTTCCGGTGCGGCGAACGGAATTGGCAAAGCTGTGGCGTTGAAATTTCTTCAC
GAAGGTTGGCTCGTTGGAGCCTACGACCTCGCGGAAATCACCTACTCACACCCCAATCTTCGCTGGGGC
TACCTCAATGTTGACAGTCCGAGTCTGTGGGACAAAGCCCTAGAAGACTTTGCGACGCACACCGGAGGC
ACCATCGATGTGGTGGACAATAATGCCGGCGTAATTATTGAGGGACCGCTGCAGGACGCAGAGGAGGGG
AGCGTCGACAAGCTTCTTGCAATCAACGTCAATGGCGTGACTCTTGGTGCCCGCGCCGCTCATCCTTAT
TTGGCGCGCACGCGCGGCGCCAGTTGTTAAACATGTCTCGGCGTCCGCGGTGTACGGGCAGCCCGCAG
ATCGCGGTGATTTCGGCTTCGAAGTTTTACGTGCGAGGTCTTACTGAGGCGCTGAATTTGGAGTGCGCG
AAAGACGATATTCGCGTGGTTCGATGTTTGGCCTTTGTGGGCGAAAACCGATTTGGTGAACGGCGTGAAG
GCTAAGTCACTGAAGCGTTTGGGTGTCCGGATCACTCCGGAACAGGTGGCACAGGCGGTATGGGATGCG
GTGCATCCGAAATCTCGGTGGGCGAAGGGAAGGTGCATCACGGGGTGTCAAAGTTGGATAAGGCGCTG
TATCTCATGAAATCTCTGTCGCTGATCGGGTAGCGATGTGTTTTGCGCGACTAATCGCCGGA

RXS02453 - 3'-Region

TAAATGAATTGATTATTTTAGGC

RXS02474 - 5'-Region

TGCTGGTCTATTGTGGCGACCGAGGGCCTTTGAAGGTTTCGACAACTGTATAAGGCCTTGAATCTTGAG
AATTTATTTTGGAGGAAGCAAGAGGAAGTGTC

RXS02474 - coding Region

ATGAGCAAAGTTGCAATGGTTACCGGTGGTGCACAAGGCATCGGTCTGGAATTTGAGAGAAGCTGGCA
GCAGATGGTTTCGATATTGCCGTAGCCGACCTGCCACAACAGGAAGAACAAGCTGCAGAGACCATCAAG
TTGATTGAAGCTGCAGGTCAAAAGGCTGTATTCTGTTGGATTAGATGTACCCGATAAGGCTAATTTTCGAC
AGTGCAATTGATGAGGCAGCAGAGAACTTGGCGGCTTCGATGTGCTAGTAAACAACGCCGGCATCGCA
CAAATTAAGCCTTCTGGAAGTCACCGAAGAAGACCTAAAGCAGATCTACTCCGTGAACGTTTTTAGC
GTATTTTTTGGTATTCAAGCAGCATCCCGAAAGTTTCGATGAGCTTGGCGTAAAGGCAAGATCATCAAC
GCTGCATCAATCGCTGCTATCCAAGGTTTCCCAATCTTGAGCGCTACTCCACCACCAATTCGCGGTT
CGTGGCCTCACCCAGGCTGCTGCGCAAGAACTCGCACCCCAAGGGTCACACCGTGAATGCCCTACGCACCT
GGCATCGTGGGACCGGAATGTGGGAGCAAATCGATGCCGAGCTTTCCAAGATCAACGGCAAGCCAATC
GGTGAGAACTTCAAGGAGTACTCTCTCAATCGCATTGGGCGGACCATCAGTACCTGAGGATGTAGCC

GGTCTGGTTTCGTTCTCGGCTTCTGAAAACTCCAACCTACATCACCGGACAGGTCTATGCTTGTGACGGC
GGCATGCTCTACAAC

RXS02474 - 3'-Region
TAGGGGTTGCTTTCCCGCACTCA

RXS02485 - 5'-Region
CGGTGGTCAGTGCTTGGTGCACCTTGCCGACGGGCTGATTGATCGTAATGGTGTTTTCTGTACGCGTTG
CCATGAGGATAAGACTACCGTTAGTGGGGTG

RXS02485 - coding Region
TTGGATTTCATCGCTAGCCAGGAAATCGCCGCGATCGACGGCGTCGAACCTCGATTGCGGAAGTCACTTTC
GCCGATCTGACGACCCTCCGCATCGGCGGAAAACCCCGCAGCGCCGTACGTTGCCAGACCACGGAGGCG
CTGGTCAGCGCCATAAAATTGCTTGACGACGCCTCCCTCCCCCTCCTCATTGTGCGCGGCGGGTCCAAT
CTCGTCGTGGCCGACGGCGATCTGGATGTTATTGCCGTCATCATCGAAACCGACGACGTCTCCATCAAC
CTCACCGACGGTCTCCTCACCGCCGATGCAGGCGCTGTTTGGGACGATGTTGTCCACCTTTCGGTGGAT
GCCGGCCTCGGTGGAATTGAATGCCTCTCCGGAATCCCCGGCTCCGCGGCGCCACCCAGTCCAAAAC
GTGGGCGCCTACGGCACGGAAGTTTCCGATGTACTCACCCGCGTCCAGCTTCTCGACCGCACCCACCCAC
CAAGTCTCCTGGGTGACGCGCTCCGAACTCGACCTCTCTTACCGATACTCCAATCTCAAATTCACCAAC
CGCGCAGTCGTCTTGGCGATCGAACTCCAGCTCCTCACCGACGGATTGTCCGCGCCGCTACGTTTTGGT
GAATTGGGACGTGCGATTAGCGATCTCCGAGGCCGAACCCACCGTCCGCCCCGTCCGCATGGTCCGC
GACGCCGTCTAGAACTCCGCGCGCCAAAGGCATGGTTCGTGGAACACACCGACACACCTGGTCC
GCCGGATCCTTCTTACCAACCCAATCGTCGACCCAGCCCTTGCCGACGCGAGTCTTTGAAAAAGTCGGC
GAACCCACCATGCCCCGCTTCCAGCCGGCGATGGCAAAGAAAACTCTCCGACGCTGGCTCATCGAA
CGCGCCGGCTTCAAAAAGGGACACCCCGGCGCAGGCGCAAAGCCTCCCTGAGCACCAACACACCCCTC
GCACTACCAACCGTGGCGACGCCCCGCGCCTCCGACCTCGTCGATTAGCCAAAGAAATCCGCGACGGA
GTCCTCGAAACCTTCGGCGCTCACCCCTCGTCCCAGAACCCGTCTGGATTGGAATCAGCATCGATGAC

RXS02485 - 3'-Region
TGAATTTTCCGACGTCCCTGGCA

RXS02539 - 5'-Region
GGCTGCTAAGCGTGCGAATGTGCGCGTTGTCACAATCGTTGACCAAGTGTCACCTGACGCACAGGTAGT
GCTCAGGTGGAGGTGGCCCAAAGGAGACCCA

RXS02539 - coding Region
ATGACTGTCTACGCAAATCCAGGAACCGAAGGCTCGATCGTTAACTATGAAAAGCGCTACGAGAAGTAC
ATTGGTGGCAAGTGGGTTCACCGGTAGAGGGCCAGTACCTTGAGAACATTTACCTGTCACTGGTGAA
GTTTTCTGTGAGGTGCGACGTGGCACCAGCGGACGTGGAGCTTGCACTGGATGCTGCATGACATGCAGCC
GCTGATGCGTGGGGCAAGACTTCTGTGCTGAACGTGCTCTGATCCTGCACCGCATTCGCGACCGCATG
GAAGAGCACCTGGAAGAAATCGCAGTTGCAGAAACCTGGGAGAACGGCAAGGCAGTCCGTGAGACTCTT
GCTGCAGATATCCCACTGGCAATCGACCACTTCCGCTACTTTGCTGGCGCGATCCGTGCTCAGGAAGAT
CGTTCCTCACAGATCGACCACAACACTGTTGCTTACCACTTCAACGAGCCAATCGGTGTTGTTGGTCAG
ATCATTCCTTGGAACTTCCCAATCCTCATGGCTACCTGGAAGCTCGCACCGGCACTTGCTGCAGGTAAC
GCGATCGTCATGAAGCCAGCTGAGCAGACCCAGCATCCATTTTGTATCTGATTAACATCATCGGCGAT
CTCATCCCAGAGGGCGTCTCAACATCGTCAACGGACTCGGCGGTGAAGCAGGCGCTGCACTGTCCGGC
TCTAATCGGATTGGCAAGATTGCTTTCACCGGTTCCACCGAGGTGCGCAAGCTGATCAACCGCGCTGCA
TCCGACAAGATCATTCCTGTACCCCTGGAGCTCGGCGGTAAGTCCCCATCCATCTTCTTCCGATGTT
CTGTACAGGATGACGCCTTCGCAGAGAAGGCAGTTGAAGGCTTCGCGATGTTCCGCCCTCAATCAGGGT
GAAGTTTGTACCTGTCTTCCCGTGCACCTGTTTCATGAGTCCATCGCTGATGAATTCCTCGAGCTTGGC
GTGAAGCGAGTTCAGAACATCAAGCTGGGTAACCCACTTGATACTGAAACCATGATGGGTGCTCAGGCG
TCCCAGGAGCAGATGGACAAGATCTCCTCCTACCTGAAGATCGGCCAGAGAAGGCGCTCAAACCCCTC
ACTGGTGGCAAGGTCAACAAGGTTGATGGCATGGAGAACGGTTACTACATTGAGCCAACCGTTTTCCGC
GGCACCACGACATGAGGATCTTCCGCGAGGAAATCTTCGGACCAAGTCTTTCTGTTGCTACCTTCAGC
GACTTCGATGAGGCCATCCGTATTGCAAACGACACCAACTACGGCCTCGGCGCTGGTGTCTGGAGCCGT
GACCAAAACACCATTTATCGTGCAAGTTCGCGCAATCCAGGCTGGTTCGAGTTTGGGTCAACCAGTACCAC
AACTACCCAGCGCACTCCGCTTTCGGTGGATAACAAGGAGTCCGGCATCGGCCGTGAGAACCACCTCATG
ATGCTGAACCACTACCAGCAGACCAAGAACCTGTTGGTCTCCTACGATCCAAACCCAACCGGACTGTTT

RXS02539 - 3'-Region
TGATCTAAGCGTTAAGTCCTAGA

RXS02554 - 5'-Region

GCTTTTGAAGTGTGTGTCGCGTGTGCGGACTGAAATAGTTTCCGCTTCAACTTGGTTGCTAAGGATAGGCT
CCATAAAAATAACCAAAGGCGGAAAAATTCA

RXS02554 - coding Region

ATGTACACACTAAGCCATCCATTGCCATCCTCGGTGCTGGCCGAGTGGGTTCTTCACTTGCCAGGTCA
GCGGTGCGCCGAGGCTATGAGGTAAAGTTGCTGGTTCAGGTGCTGTGGACAAAATCGCTCTTACCGCT
GAGATCCTTATGCCCCGGCGCGGTTCCAAGCACTGCTGACCAGGCTGTAAAGGATGCAGATATTGTGTTT
TTGGCTGTTCCCCTGCATAAATTCCGCAGTGTCAATCCAGCCACTTTAGAGGGCAAGATCGTTATTGAC
ACGATGAACCACTGGGTTCGGTCAATGGTGAGTTGGAGGAAATTGATCAGGATCCGCGCAGCACTTCG
GAGATTATTGCGGAGTTTTTCGCGGGATCAACCATGGTGAAGTCTTTTAACCACATTGGTTATCACGAG
ATTGAGCAGGATGCGGGTACCGGGCGTGCATTGCGTATGCCACGGATGATGTGGATGCAGGTGCCAG
GTTGCACAGCTAATTAAGAGTTTGGGTTTGTTCCTTTAAATATTGGCGCATTGGAAAACGGCCGTATT
CTGGAACCTGGCCAAGAAGCTTTCGGCGCGCACCTTAATAAAGATTTCGCGCCTAGAACTTGTTAATCAG
CGG

RXS02554 - 3'-Region

TAGTACCTCGATCTTCAGCCAAC

RXS02560 - 5'-Region

TTGGGGCAAGCCAGCTAACGCATTCTTGTGGAAACCGCAGACATTGAGGCCGCCACGCGGAACCTCT
AAGAGCAGTGGAATGAAATAATCCGGTGCTG

RXS02560 - coding Region

ATGCAGGGCAACTCGCTTAATCTGGCAGACAACAGCGAGAGAAAGAAGCCCATGCCGTCACCAGGAGAA
CTTTTAGCCGCCCGCTACGGACAACCTGCAACCTGGACGCCACCGCAGTGGAATGAGACGCTTGATGTC
ATTACACGATCGATCAGTTTCGAGGTGGTTGGATAAACCGGTTGATGATGACACCATCCGCACCATT
ATTTCCGCCGCACAATCGGCTGGAACCTCTTCCAATAAGCAGGTCAATTTCTGTCACTCGTGGTTAAAGAT
CCTGAGCTGAGGAAAGGCCTCGCGGGGATCACTCGCCAGATGTTTCCGCACCTTGAGCAGTTCCCGCG
GTGCTGATTGTTGATTGATTATTTCCCGAATCAGTGCAGTGGCAGCCAGAGAAGATCTCCCAACAGGG
GCTCTTGATTATCTCGATGAGGCCGCGTGGGGGTTCTCGACGCCGGAATCGCAGCTCAAAACGCTGCA
ATTGCTGCGGAGTCACTTGGATTGGGAACGCTCTATTTGGGTTTCGGTGCACACGATGCGGAAGCCGTG
CACAAATTGCTTGGCCTTCCACCTGAGATCGTGCCTGTCGTGGGCTTGGAATGGGGCATGCGGATCCG
CCTGAACCTGCCGGAATTAAACCTCCCCTGCCACAAGAAGCCATTGTTCACTGGGATACCTACACCGAG
AAAAACCTCGAATTATCGATTCTACGACCGCGCCCTCGACACTTACTATTCTCGCTACGGCCAGCAC
CAGCTCTGGTGAAGCAGACGGCGCATAGGGCGGCGTCGAAAAGCTTTTCAAAAACCAACAGGCAGTTC
CTTAGGGGCGTGTGTTGAGCGCGCCGGGTTTGGGCTGAGA

RXS02560 - 3'-Region

TAAAAGCATGATTATGGACGCCT

RXS02578 - 5'-Region

GGCAAAATGAGGAACAGCACGCCCGCAATAATGAGGACCGTTGCAGATCGCTTCATAAAAACAGCCCA
CACCTTTCCGCTAAACTCGCATGTTGAAATA

RXS02578 - coding Region

ATGTCTACCCAATCATATGCACCCATCCGCCATCGCGGATTTCATCAGCTCACTCGAGGGACTACGCGCA
ATCGCCTCCCTGGGAGTCTTGGCGACCCACGTTGCATTCCAAACCTCCGTGACCCCGCCAGCAACATC
GGTGCAGTACTCGCGCGTTTCGACTTTTTTCGTCGCGCTTCTTTCGCCCTCTCCGCCCTTCGTTCTTTGG
CGACGCCGCGCCGGGCAACCAAGTGGGACTGTACTACCTCAAACGCCTAGCCCGCATCATGCCCGCATA
TGGGCAACGGTCATTGCAGTCCCTGCTGTTTATTTCCACCGGCCCTGGTTAGCCAACCTGACGATGACC
CAAATCTACTGGCCAGACGGGCTCATGACAGGCCTCACCCACCTTTGGTCCCTGTGCGTGGAAGTGGCG
TTTTACCTGGTGATGCCGCTTCTCGCGTGGGTGTTGGATAGGTTTGGTTCGGCCGGTGCATCCTGTTG
ATTGTTGGTGGGGCAGTGTTGAGTCTGGCGTGGCCGTGGATTCCCCTTGTGGAGCATGCGTTGGACGAG
GGGTGGGCGAACATGCAGATCTGGCCACCCGCTTACGCTTGCTGGTTTGAGTTCGGCATGATCGCCGCA
GAAATTGAAGGAGTTCGATTCCACGGGTTCCGAGCTTTGTGTGGGTGGGTTAGCTTTAGTGGTTCGCT
TGGATCGCGCCGCAAGAATGGTTCGGACCACTAGGTTTAGTGCACCCAGCCCTGGGAATTCACCTTA
AGAGTCTCGCGGGCACACTTTTCGCTGTATTTCTGGTGGTTCCCTACGCGCTGGGTACGCCCTCTCGG
CTTCTTGATTCCAGTTGGATGAAAACGCTCGGCACCTGGTTCGATTCCATCTTCTCTGGCACCTTCCC
GTGCTGACGATTGTGTTCCCACTGCTCGGGTTGCCTTTATTTAGTGGAAATTCCTGTTGGTGTTCATC

GTGACGGTCTTGTGACGATCCCAGTTGCCGCCATCAGCTACACCTTCATCGAAGAGCCCATCAGCGGT
GGACCCGGCGCGCCATTACAGCTGGGGGTCGTTAGGATTCACCATTTTTCTGGGGGTAGGTCTGGAAAA

RXS02578 - 3'-Region
TGATGAATTGGCACCACGTCAAG

RXS02741 - 5'-Region
ACTGGTCACCTGGTTTGGTCTGCACTCTGACTCCCCTCAAAGGGCACAATTTGGTCAATTTCCCAACC
TTGTCTTTTCAATCATGGTTAGTGTGGGAACC

RXS02741 - coding Region
ATGAAGGCAATCTTAGTTTCCCGCACCGGCGGACCAGAGGTGTTGGAGTTCACCGACACTGACGCCCCA
AAGCCCACTGATGATCAGGTTTATGTTGAAGTTGATATGGCTGGCGTCAACTTTATTGATACTTACTAT
CGCCAGGGTGAATATCAGCTCGCCTGCCGTTTATCCAGGTTTGAAGGCACTGGTCGGGTGTTGGAG
GATCCGCAGGGGTTGATTGCGGCGGGTACCAAGGTGGCGTGGTGTGATGCCATGGGTTCGTATGCTCAG
CAGGTGTGTGTGCCGCGGGATCGCTTGGTGGCGGTTCCCAGGGCGTGAGTTCGGAAGTGGCTGCGTCCG
ATGTTGATGCAGGGAATCACTGCGCATTATCTAACCAATGGTGTGTATGAGCTTGAAGAGGGCGATTCT
TGCCTCATCACTGCTGGCGCGGGTGGTGTGGATTGTTGGCTACGCAGATGGCGGCGGCCAAGGGAGTG
CGCGTGTACAGCGTGGTGTCCACGGATGAAAAGCTGAGCTTGCTTTGGATGCCGGTGCCTTATGAGGTG
TTTCGTTATTCCGATAATTTGGCGGAGCAGGTTTCGTGGCACAACGGGGGTCGCGGAGTTGATGTGGTG
TATGACGGTGTGCGGCCAGTCCAGTTCAATGAGTCCTTAGAGGCTGTTTCGTCCGCGCGGCACTGTGTGT
TTGTTTGGTGGCGGTGCGGTCCTGTGGAGCCTTTTGATCCGCAGCTGTTGAACACTCACGGTTCGATC
TTCTTGACCCGCCCAAGCATTGGCGCGTGGACGCTCTGAGGAGGGCGAATTTGCCAAGCGTGCACAGGCG
GTCACGCAGGCCATCGTCGAAGGCACCTTGGCGGTTTCGCGTTACTGGCACATATTCGCTTGCCGACGCC
TACATCGCCACCGCGACCTTCAGGCGGTAGCACGAGCGGTTCTTTGGTCTTGGAATCCCGAAGGAC

RXS02741 - 3'-Region
TAAACACGCATAAAAAGATCCTG

RXS03058 - 5'-Region
ACGAGCTTCCGCTCTGCACAAGCCGCTAGAAGCCCCGCATAGCCCTAATGTAGAGCTCATGCCCATTTG
GAATCACAACACCGCATATCGGCCATGGCTG

RXS03058 - coding Region
GTGTCAAAGCTCAAAGGCTCAAGATCGCTTCTCGACGTGGGCTCCGGCGATCACTCCTTCGCCGACCTG
GCCGGCCGCCAGGTCGCGCATGTCGATGTCGTGGATCCTCTTATTAATACAACCTTTGAAGAATTCCAG
CCGACCCAAAGCTACGATGCCATCACGTTTCATCGCGTCCCTCCATCACATGAACGCGGAAGAAGGACTT
AACAAAGCAGTCCGAATCCTCAATCCTGGCGGCAAGCTCCTCATCGTAGGCCTCGCCAAAAACAAAACC
GCCTCCGACTGGATCATCTCCGGAATACAAGCTTTTCTCTCCCGACCAATCAGCCTCATCAATAGGGAA
CAACAAATCTACCCCTTCCCTACCAAGAACCCTCAGAGAGTCTCCACGAAAACGACAACCTACCAAG
CAGCTCCTCCCTCACCGCGTATTTCGCCGTGGAATCCACTTCCGATACCTCCTCGAGTGGACAAAGCCT

RXS03058 - 3'-Region
TAAACAGCCCTATAAACCAAAAA

RXS03061 - 5'-Region
CTGCCACCACTGGTCATTGCAGAGGACACTCTCCGTGATGGTCTTCAGGTGTTAGTCGCAGCCCTAGAG
CGCGAAACCGCGCACCAGAAGGTGGGCTAAA

RXS03061 - coding Region
GTGTCTTTGACCTTCCAGTAATCAACCCAGCGATGGCTCCACCATCACCGAGCTAGAAAACCACGAT
TCCACCCAGTGGATGTCCGCGCTCTCTGATGCAGTTGCAGCTGGTCCCTTCATGGGCTGCGAAAACCTCC
CGCGAAAGATCCGTTGGTACTCACCGCAATCTTCAAGCACTGACCGAACGCGCCCAAGAACTTGCAGAG
ATCATCCACCTGGAAGCTGGAAAATCCGATGCAGAAGCTCTTGGTGAAGTCGCTTATGGTGCAGAATAC
TTCCGTTGGTTTGGCGAAGAAGCAGTGCAGCTGCGCGGCGCTACGGACAGTCA

RXS03119 - 5'-Region
TGGGAGGTGTGCGACCAAGTACTTTTGCGAAGCGCCATCTGACGGATTTTCAAAGATGTATATGCTCG
GTGCGGAAACCTACGAAAGGATTTTTTACC

RXS03119 - coding Region

ATGGCTGTATACGAACCTCCAGAACTCGACTACGCATACGACGCTCTCGAGCCACACATCGTCGCTGAA
ATCATGGAGCTTGACCAAGTCCAAGGACGCAACCTACGTTGCGGGCGCAAATGCAGCACTC

RXS03119 - 3'-Region
TAGGCACTAGAGAAGGCACGCGA

RXS03120 - 5'-Region
CTGGGCAGTTCTTGGGTACGACCACATATCCGGTCGCCTGGTTATCGAGCAGCTCACCGACCAGGAGGG
CAACATCTCCTTCGACATCACCCCAAGTTCTG

RXS03120 - coding Region
ATGCTCGATATGTGGGAGCAGCTTTCTACCTGCAGTACATGAACGTTAAGGCAGATTACGTCAAGGCT
GTTTGAACGTCTTCAACTGGGACGACGCAAGAGCAGCTTCGCAGCAGCTTCCAAG

RXS03120 - 3'-Region
TAAGCATTTTTAGTCCGTGCAAT

RXS03150 - 5'-Region
TTTAACAGAGTGCCTTTCAATGCCTGTAGTGTTCGGCAATTTTGAATGTCGTTACGGTTACCCAAGGC
TGAATTCCTGAGCTCACCTTGTACAAGATCA

RXS03150 - coding Region
GTGGAAGCCCAGTTACCTCTCCCCTGCTCAACAATGGGCAAACCTGTTTCCTTGGTACCCGAATCCTT
GCTCCAAAATCACGTTACGCGGAAGTAGTCGATGCATTACCGCTTTTCGCTGGCAGCCTGCAGGTTGGA
GTCACGTCCTCCCCTGACACTCAGATCGGACCGATGGCGACTGCCCGGCAGCGTGAGCGCGTGGAATCC
TACATTTCCCAAGGCAAAAATGCTGGAGCCCGCATCACTGTCGGTGGCAGCCGTCCACGAGATCTTGAC
GCCGGATTCTTCGTTGAGCCAACAGTGTTTCGCCGATGTAGACAATCGCGCAGCCATTGCCCAAGATGAA
ATCTTCGGACCGGTGCCCTCTGTTGTTTCTACCAAGACGATGAACACGCCATCCAAGTAGCCAACGAT
TCCGAATTCGGTCTCGGCGGAACTGTCTGGACGAGCGATCCCGAGCGCGCGCTGCATTGGCCCGCCGA
GTTACACAGGAACCATTTGGCATCAACCGCTATATCCCTGATCCCGCCGACCATTTGGAGGTGTGAAA
AACAGTGGCCTTGGCAGAGAACTCGGCCCGAAGGTCTTGCTTCTACCAAGAAACCCAAACCATTTAT
CTC

RXS03150 - 3'-Region
TAATCCAAACTGCACCTATATAT

RXS03218 - 5'-Region
TTGGTACGGGGGTTAAACACCTAGCTTTGTATCTGAAGGCTTCGGAGATTTCCTGTATACATCAACAAT
TGCCCTTTAACCAGGAGTATTCTTAGCTTCT

RXS03218 - coding Region
ATGACTCCTGATCTTGCAGCTTTTCTGGACAACTTTATGCCGAGGGGCAGGAATTTGATGCAGAGCAA
CCGGATCGGCTTGATCGCAGGAGAAACCTTGAATCTGAAAGCGCTGCGCTACTTCGCTCGCTCATCTAC
GGAATTAGTCCAAAGTCAGTTCTCGAGCTAGGCACATCCAATGGTTACTCGACTATTTGGATGGCAGAT
GTCGTGAATTTAACAACAGTAGACAATGATCCTGAGCGGTCTTTGGATGCTGCAGCAAACCTTCGCGCC
GCTGGAGTTGAAGAAAAAGTTCAACGAATCGTCGCCGATGGAGCAACCGTACTTGCCGATTCCGCGGAT
GAACAATGGGATTTCAATTTTCTTGTATGCCGAACAATCACTCTATGTAAATTGGTGGCCTGACCTGCAA

RXS03218 - 3'-Region
TGAGTTCTAGCAAATGGCGGCTTGTTAGTG